Warning

- Ask a qualified installer or contractor to install this product. Do not try to install the product by yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the User's Manual carefully before using this product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

Dealer:

DAIKIN AIRCONDITIONING PHILIPPINES, INC.
2nd Floor, Hanston Square, 17 San Miguel Avenue,
Ortigas Center, Pasig City, 1605
Tel. No.: (02) 942-6800/942-6792
Fax No.: (02) 942-6793

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DAIKIN

PCSPH1411

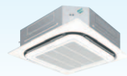
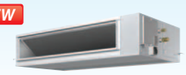
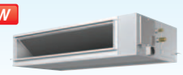
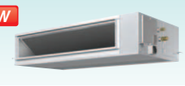
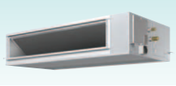
SkyAir

Super Inverter

R-410A

Daikin meets your needs with this full lineup of inverters for various types of indoor units and power supplies.

SkyAir

	Series	2HP 50	2.5HP 60		3HP 71	4HP 100	5HP 125	6HP 140
1 Phase, 220–230 V	Pair	**CEILING MOUNTED CASSETTE TYPE** ROUND FLOW 〈Round Flow〉	NEW	NEW 				NEW	NEW
		Indoor unit	FCQ50KVEA	FCQ60KVEA		FCQ71KVEA	FCQ100KVEA	FCQ125KVEA	FCQ140KVEA
		CEILING SUSPENDED TYPE				NEW	NEW	NEW	NEW
		Indoor unit				FHQ71CAVEB	FHQ100CAVEB	FHQ125CAVEB	FHQ140CAVEB
		WALL MOUNTED TYPE				NEW	NEW		
		Indoor unit				FAQ71CVEA	FAQ100CVEA		
		DUCT CONNECTION MIDDLE and HIGH STATIC PRESSURE TYPE	NEW	NEW				NEW 	NEW 
		Indoor unit	FBQ50DAVET	FBQ60DAVET		FBQ71DAVET	FBQ100DAVET	FBQ125DAVET	FBQ140DAVET
		FLOOR STANDING TYPE	NEW	NEW		NEW	NEW	NEW	NEW
		Indoor unit	FVQ50CVE	FVQ60CVE		FVQ71CVEB	FVQ100CVEB	FVQ125CVEB	FVQ140CVEB
	Simultaneous Twin Multi	**CEILING MOUNTED CASSETTE TYPE** ROUND FLOW 〈Round Flow〉					NEW	NEW
		Indoor unit					FCQ60KVEA×2	FCQ71KVEA×2
		DUCT CONNECTION MIDDLE and HIGH STATIC PRESSURE TYPE					NEW	NEW
		Indoor unit					FBQ60DAVET×2	FBQ71DAVET×2
		FLOOR STANDING TYPE					NEW	NEW
		Indoor unit					FVQ60CVE×2	FVQ71CVEB×2
		OUTDOOR UNIT Super Inverter							
		1 Phase, 220–230 V Outdoor unit	RZR50LVVM	RZR60LVVM		RZR71LVVM	RZR100LVVM	RZR125LVVM	RZR140LVVM
3 Phase, 220V/380 V	Pair	**CEILING MOUNTED CASSETTE TYPE** ROUND FLOW 〈Round Flow〉				NEW		
		Indoor unit				FCQ100KVLT	FCQ125KAVLT	FCQ140KAVLT
		DUCT CONNECTION MIDDLE and HIGH STATIC PRESSURE TYPE				NEW 		
		Indoor unit				FBQ100DAVET	FBQ125DAVET	FBQ140DAVET
		OUTDOOR UNIT Super Inverter						
		3 Phase, 220 V Outdoor unit				RZQ100KCTLT	RZQ125KCTLT	RZQ140KCTLT
		3 Phase, 380 V Outdoor unit				RZQ100LUYLT	RZQ125LUYLT	RZQ140LUYLT

Full Lineup of Inverter Series

Daikin meets your needs with this full lineup of inverters for various types of indoor units and power supplies.

34 new combinations added!

★: New Lineup ●: Continuous

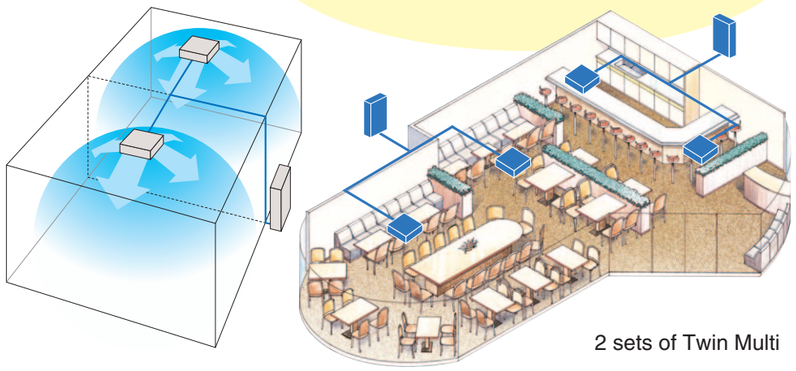
			50	60	71	100	125	140
1 Phase, 220–230 V	Pair	*CEILING MOUNTED CASSETTE TYPE* 〈Round Flow〉	★	★	●	●	★	★
		CEILING SUSPENDED TYPE			★	★	★	★
		WALL MOUNTED TYPE			★	★		
		DUCT CONNECTION MIDDLE and HIGH STATIC PRESSURE TYPE	★	★	●	●	★	★
		FLOOR STANDING TYPE	★	★	★	★	★	★
	Twin	*CEILING MOUNTED CASSETTE TYPE* 〈Round Flow〉					★	★
		DUCT CONNECTION MIDDLE and HIGH STATIC PRESSURE TYPE					★	★
		FLOOR STANDING TYPE					★	★
3 Phase, 220 V	Pair	*CEILING MOUNTED CASSETTE TYPE* 〈Round Flow〉				★	●	●
		DUCT CONNECTION MIDDLE and HIGH STATIC PRESSURE TYPE				★	●	●
3 Phase, 380 V	Pair	*CEILING MOUNTED CASSETTE TYPE* 〈Round Flow〉				★	★	★
		DUCT CONNECTION MIDDLE and HIGH STATIC PRESSURE TYPE				★	★	★

Simultaneous Twin Multi Operation

Comfortable currents of air are sent to every corner of the room.

For example, four indoor units are judiciously spaced in this wide single-floor restaurant to deliver comfortable currents of air to every corner of the room.

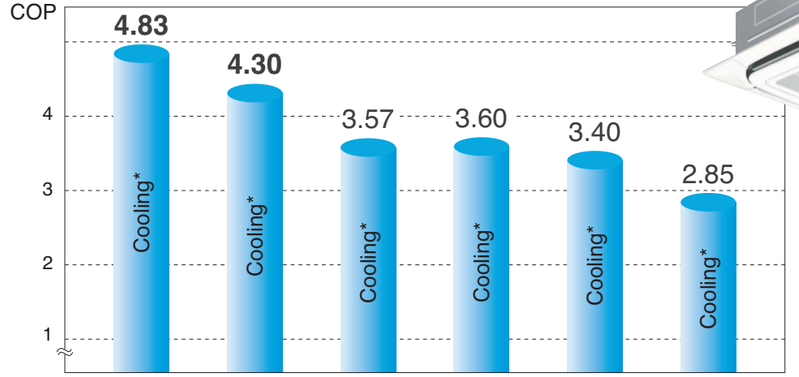
Refrigerant branch piping kit for Twin Multi operation

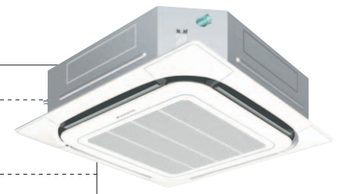


2 sets of Twin Multi

Energy saving

Achieved higher COP





CEILING MOUNTED CASSETTE TYPE
〈**Round Flow**〉
(1 Phase, 220–230 V)

What is COP **(Coefficient of Performance)**

COP is equal to capacity (kW) divided by power consumption (kW), and the larger the COP value, the higher the energy efficiency, enabling cooling and heating with less electricity and increasing the energy saving performance.

Note :
*Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24.0°CWB. Equiv. refrigeration piping, 7.5 m (horizontal).

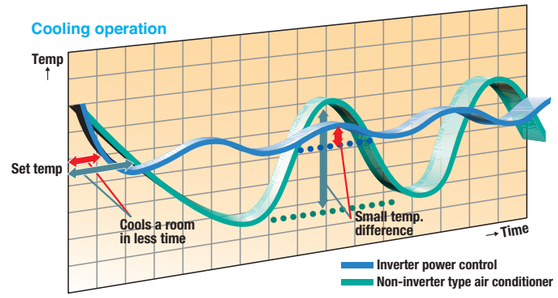
Comfortable

Enhanced comfort with Inverter

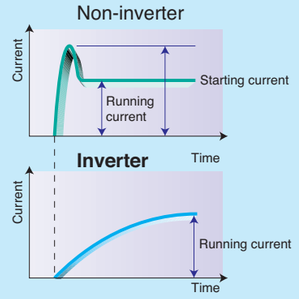
Inverter performs variable control of frequency, which determines air conditioner's power performance.

At startup, full power is used to achieve the set temperature quickly. Then, the capacity is adjusted according to the outdoor temperature changes and subtle indoor load changes to achieve fine capacity control resulting in a more stable room temperature.

Non-inverter type air conditioners must be switched on and off repeatedly, causing large fluctuations of the room temperature.



At startup, inverter raises frequency smoothly, eliminating the starting current spike.



Cassette air conditioner with 360° uniform airflow sets the standard

FCQ50/60/71/100/125/140K

ROUND FLOW

Option

Accessory required for indoor unit

Navigation Remote Controller

(Wired Remote Controller)

BRC1E62

Note: Remote controller cable not included. Cables must be procured locally.

Wireless LCD remote controller

A signal receiver must be added to the indoor unit.

BRC7F633F

Signal receiver unit (Installed type)

Wireless remote controller and signal receiver unit are sold as a set.

Features

Comfort							Remote controller					Cleanliness		Work & Servicing							Control features							Options			Others
Auto swing	Swing pattern selection	Switchable fan speed (2 step)	Programme 'Dry'	High ceiling application	Two selectable temperature-sensors	Night quiet operation	Setpoint auto reset	Setpoint range set	Weekly schedule timer	Off timer (programmed)	On/Off timer	Anti-bacterial air filter	Silver ion anti-bacterial drain pan	Drain pump mechanism	Pre charged for up to 30 m	Long-life filter	Filter sign	Ceiling soiling prevention	Low gas pressure detection	Emergency operation	Self-diagnosis function	Auto-restart	Control by 2 remote controllers	Group control by 1 remote controller	External command control	Central remote control	Interlock control	DIII-NET communication standard	High-efficiency filter	Ultra long-life filter	Fresh air intake kit	Anti corrosion treated heat exchangers
●	●	●	●	●	*1	*2	*3	*3	*3	*3	*4	●	●	●	*2	●	●	●	*2	●	●	●	●	●	●	●	●	●	●	●	*2

*1Applicable when wired remote controller is used
*2For the outdoor units
*3Applicable when BRC1E62 is used
*4Applicable when BRC1C61 is used

Avoids uneven temperature and discomfort caused by drafts.

Comfort enhanced by Round Flow!

• 360° airflow

With uniform temperature distribution

Airflow distribution Creates uniform comfort throughout the space

Greater comfort
Improved energy saving

• Air movement is gentle with Round Flow

Enhanced Comfort

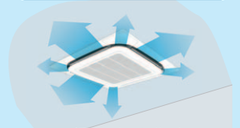
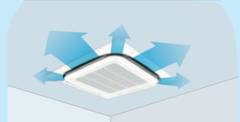
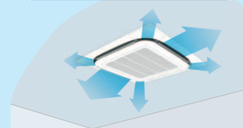
360° airflow can maintain comfort even if air discharge speed is lower.

If you raise the set temperature by 1 to 1.5°C,and velocity is decreased by 25%, you still obtain the same feeling temperature and comfort.

Adapts easily to the installation space.

• Because air flows out from corner outlets, comfort spreads more widely.

Typical flow patterns There are a total of 23 flow patterns.

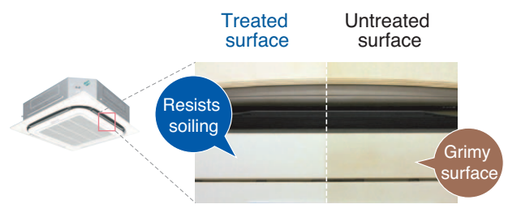
All-round flow	3-way flow	L-shaped 2-way flow	Opposite 2-way flow
			
(E.g., installed in middle of ceiling) 4-way flow also possible.	(E.g., installed near a wall)	(E.g., installed in a corner)	(E.g., installed in a long room)

Note: Whatever the discharge direction, the same type of panel is used. If installing for other than all-round flow, an air discharge outlet sealing material (option) must be used to close each unused outlet.
Operation sound increases when using 2-way or 3-way flow.

Grime prevention and bactericidal coating: Make cleaning easier.

External panels are treated with a coating that repels dirt.

• To prevent dirt sticking to the external panels, they have been coated with a surface treatment.



• Condition after exposure to the smoke of 600 cigarettes in 1 m^3 enclosed space.

• Silver ion anti-bacterial drain pan

Mould-proof drain pan includes a silver ion antibacterial agent that assists in preventing the growth of slime, bacteria, and mould that cause smells and clogging.

• Non-flocking flaps

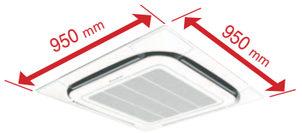
Condensation does not easily form on and dirt does not cling to non-flocking flaps.
It is easy to clean.

• Filter has anti-mould and bactericidal treatment

Prevents mould and microorganisms growing out of the dust and moisture that adheres to the filters.

Fine square panels

- Panel size is same for all models, FCQ50-140K. It is easy to maintain a neat appearance when multiple units are installed.



Same for all models

Compact body and quiet operation

dB(A)

Indoor unit	High	Low
50K	35	28
60K	35	28
71K	35	28
100K	43	32
125K	44	34
140K	44	36

Note : Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

Optimal comfort and convenience assured by air discharge modes

Note: Air direction is set to the standard position when the unit is shipped from the factory. The position can be changed from the remote controller.

Air direction	Standard setting	Setting to prevent soiling of ceiling*
Desired situation	Standard position to prevent draft.	Recommended for shops with light coloured ceilings that must be kept spotless.
Auto-swing	Auto-swing between 15° and 60°	Auto-swing between 25° and 60°
5-levels air direction setting	Settable to 5 different levels between 15° and 60°	Settable to 5 different levels between 25° and 60°
Auto air direction control	The air direction is set automatically to the memorised position of the previous air direction.	

*Closing of the corner discharge outlets is recommended.

• Suitable for high ceilings

Even in spaces with high ceilings, a comfortable airflow is carried down to the floor level.

■Criteria for ceiling height and number of air discharge outlets (Ceiling height is reference value)

		Number of air discharge outlets used							
		50K–71K				100K–140K			
		All round flow	4-way flow	3-way flow	2-way flow	All round flow	4-way flow	3-way flow	2-way flow
Ceiling height	Standard	2.7 m	3.1 m	3.0 m	3.5 m	3.2 m	3.4 m	3.6 m	4.2 m
	High ceiling ①	3.0 m	3.4 m	3.3 m	3.8 m	3.6 m	3.9 m	4.0 m	4.2 m
	High ceiling ②	3.5 m	4.0 m	3.5 m	—	4.2 m	4.5 m	4.2 m	—

Note: Factory settings are for standard ceiling height and all-round flow.
High ceiling settings (1) and (2) are set with the remote controller by field setting.

• Two selectable temperature-sensors

Both indoor unit and wired remote controller (option (BRC1D61,BRC1E62)) contain temperature- sensors. Temperature sensing can be set at the unit or, to further improve comfort level, closer to the target area at the wired remote control. This feature must be set during commissioning by the technicians.

*Temperature-sensor on indoor unit must be used when the air conditioner is controlled from another room.
**Wireless remote controller does not have a temperature-sensor.

• Switchable fan speed: High/Low

High setting provides maximum reach while low setting minimises drafts.

• On/Off timer

Operation starts when the preset time of the ON timer elapses and stops when the preset time of the OFF timer elapses.

Quick and easy to install

- Just 256 mm high. Installable in tight ceiling spaces (50K-71K)

*1 298 mm high with 100K–140K
*2 308 mm high with 100K–140K

• Easy height adjustment

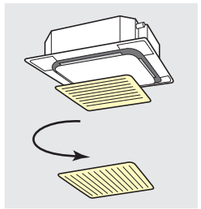
Each corner of the unit has an Adjuster Pocket that lets you easily adjust the unit's suspended height.

Note: If the wireless remote control option is installed, a light receptor unit is housed in one of the adjuster pockets.

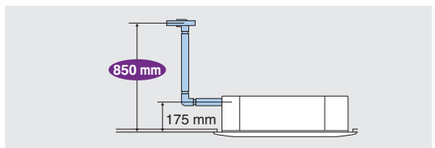
• All models can be installed without using lifter because of the light weight.

• Installable in any direction

Since the orientation of the intake grill can be adjusted after installing, the direction of the intake grill lines can be unified when multiple units are installed.



• Drain pump is equipped as standard accessory with 850 mm lift.



• Transparent drain socket

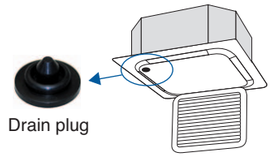
Because the drain socket is transparent, after the drain piping has been installed, it is easy to check if the drain come out through the socket.

• Connection to a centralised control system is available without option

• Low gas pressure detection

Easier to maintain

- The condition of the drain pan and drain water can be checked by removing the drain plug and intake grille.

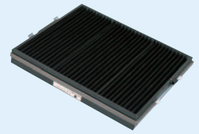


- With Ultra long-life filters (option), maintenance is not required in normal shops or offices for up to four years.

Options required for specific operating environments

Ultra long-life filter

Even in smoky environments where the air conditioning is on most of the time, the ultra long-life filter only has to be changed once a year.



Smoky atmosphere: annual filter change
*For dust concentration of 0.3 mg/m³ (Requires separately sold Air Cleaner.)
1 year (Approx. 5,000 hr) ≒15 hr/day x 28 day/month x 12 month/year

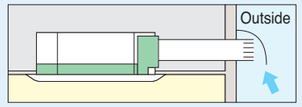
Ordinary store or office: filter change every 4 years
*For dust concentration of 0.15 mg/m³
4 years (Approx. 10,000 hr) ≒8 hr/day x 25 day/month x 4 years

High-efficiency filter

Available in two types: 65% and 90% colorimetry.

Fresh air intake kit

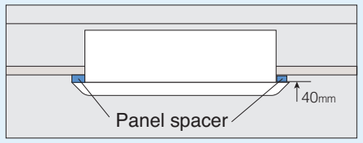
Using this kit, a duct can be fitted to increase the intake of outdoor air.



Note: *Connecting ducts, insect nets, fire dampers, air filters, and other parts should, as required, be procured locally.
**Outside Air fan interlocked with air conditioning unit is necessary. Optional PCB(KRP1C63)is required for interlocking.
***It is recommended that the volume of outdoor air introduced through the kit is limited to 10% of the maximum airflow rate of the indoor unit. Introducing higher quantities will increase the operating sound and may also influence temperature sending.

Panel spacer

Use when only minimal space is available between drop ceilings and ceiling slabs.



Note: Some ceiling constructions may hinder installation. Contact your Daikin Dealer before installing your unit.

Sealing material of air discharge outlet

Sealing material block air discharge openings not used in 2-way or 3-way blow.

Branch duct (direct-connection round duct)

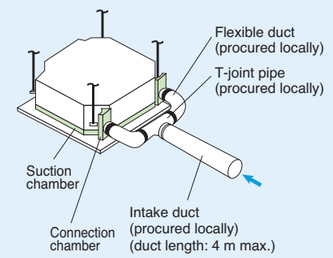
A round duct can be attached without the need for a chamber.

A flanged port for direct connection of a round duct is provided. An existing branch duct chamber can also be fitted (square slit hole).

The units can be installed in the following different ways.

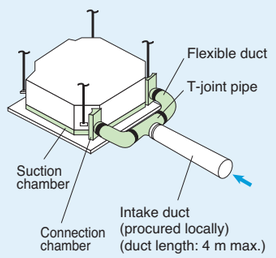
Chamber type
(without T-joint pipe and fan)

KDDP55B160


Flexible duct (procured locally)
T-joint pipe (procured locally)
Suction chamber
Connection chamber
Intake duct (procured locally) (duct length: 4 m max.)

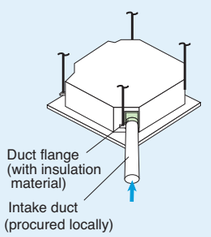
Chamber type
(with T-joint pipe and without fan)

KDDP55B160K



Direct installation type

KDDP55X160



Note: Use of options will increase operating sound.

Comfortable airflow travels throughout the room

Option

Accessory required for indoor unit

Navigation Remote Controller
(Wired Remote Controller)

BRC1E62

Note: Remote controller cable not included. Cables must be procured locally.

Wireless LCD remote controller

A signal receiver must be added to the indoor unit.

BRC7GA56

Signal receiver unit (Installed type)

Wireless remote controller and signal receiver unit are sold as a set.

Features

Comfort						Remote controller				Cleanliness	Work & Servicing					Control features							Options	Others
Auto swing	Switchable fan speed (3 step)	Programme "Dry"	High ceiling application	Two selectable temperature-sensors	Night quiet operation	Setpoint auto reset	Setpoint range set	Weekly schedule timer	Off timer (programmed)	Anti-bacterial air filter	Drain pump mechanism	Pre charged for up to 30 m	Filter sign	Low gas pressure detection	Emergency operation	Self-diagnosis function	Auto-restart	Control by 2 remote controllers	Group control by 1 remote controller	External command control	Central remote control	Interlock control	DII-NET communication standard	Fresh air intake kit	Anti corrosion treated heat exchangers
●	●	●	*1	*2	*3	*4	*4	*4	*4	●	*5	*3	●	*3	●	●	●	●	●	●	●	●	●	●	*3

*1Installable on max. 4.3 m high ceiling
*2Applicable when wired remote controller is used
*3For the outdoor units
*4Applicable when BRC1E62 is used
*5Option

The latest stylish model

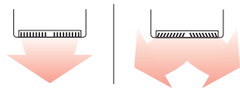
- Sophisticated design

  Flap neatly closes when not in use.

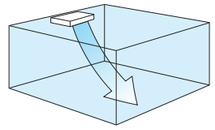
  Fresh white colour.

Comfortable

- The technology of the DC fan motor, wide sirocco fan, and large heat exchanger combine for greater airflow and quiet operation. High/Middle/Low : 46/42/38 db(A)
- Auto swing (up and down) and louvers (left and right by hand) bring comfort to the room
- Louver manually adjusts for straight or wide angle airflow



- Installable on ceilings 4.3 m high



- Two selectable temperature-sensors

  Both indoor unit and wired remote controller (option (BRC1E62)) contain temperature- sensors. Temperature sensing can be set at the unit or, to further improve comfort level, closer to the target area at the wired remote control. This feature requires initial setting by the installer.

  *Temperature-sensor on indoor unit must be used when the air conditioner is controlled from another room.
  **Wireless remote controller does not have a temperature-sensor.

- Switchable fan speed: High/Middle/Low and Auto

  ("Auto" is applicable when BRC1E62 is used.)

- Programme "Dry"

  Dehumidification is a microprocessor controlled to prevent abrupt and uncomfortable changes in air temperature.

Quiet operation

dB(A)

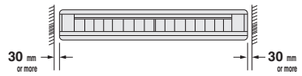
Indoor unit	High	Middle	Low
71CA	38	36	34
100CA	42	38	34
125CA	44	41	37
140CA	46	42	38

Note : Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

Installation flexibility for freedom of design

- Flexible installation

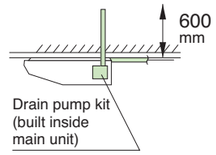
  The unit fits more snugly into tight spaces.



*Water used in the test-run can now be drained from the air discharge opening rather than from the side as was formerly the case.

- Drain pump kit (option) can be easily incorporated

  Drain pipe connection can be done inside the unit. refrigerant and drain pipe outlets are at the same opening.



- Connection to a centralised control system is available, without option.
- All wiring and internal servicing can be done from under the unit
- Pipes more easily rigged
- Low gas pressure detection

Easy maintenance

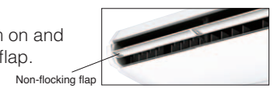
- Long-life filter lasts up to 6 months*

  * For dust concentration of 0.15 mg/m^3

  Two time settings (2500 hrs and 1250 hrs) are available to match the installation environment. Maintenance time warning is displayed on the remote controller (filter sign).

- Drain pump kit (option) includes a silver ion antibacterial agent that assists in preventing the growth of slime, bacteria, and mould that cause smells and clogging.
- Non-flocking flap

  Condensation does not easily form on and dirt does not cling to non-flocking flap. It is easy to clean.



- Easy-clean, flat surfaces

Oil resistant grille

- Oil-resistant plastic is used for the air suction grille. This satisfies durability in restaurants and other similar environments.

  Note: Intended for use in salons, dining rooms, and ordinary sales floors, this specification is not suitable for kitchens or other harsh environments.

Compact design and easy installation

Option

Accessory required for indoor unit

Navigation Remote Controller

(Wired Remote Controller)

BRC1E62

Note: Remote controller cable not included. Cables must be procured locally.

Wireless LCD remote controller

A signal receiver must be added to the indoor unit.

BRC7EB519

Signal receiver unit (Installed type)

Wireless remote controller and signal receiver unit are sold as a set.

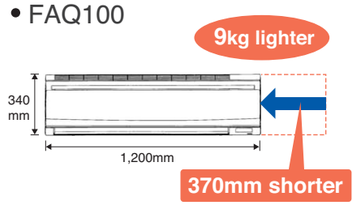
Features

Comfort							Remote controller					Cleanliness	Work & Servicing						Control features								Others
Auto swing	Switchable fan speed (3 step)	Auto airflow rate	High fan speed mode	Programme "Dry"	Two selectable temperature-sensors	Night quiet operation	Setpoint auto reset	Setpoint range set	Weekly schedule timer	Off timer (programmed)	On/Off timer	Mould-proof air filter	Drain pump mechanism	Pre charged for up to 30 m	Filter sign	Low gas pressure detection	Emergency operation	Self-diagnosis function	Auto-restart	Control by 2 remote controllers	Group control by 1 remote controller	External command control	Central remote control	Interlock control	DIII-NET communication standard	Anti corrosion treated heat exchangers
●	●	*1	●	●	*2	*3	*1	*1	*1	*1	*4	●	*5	*3	●	*3	●	●	●	●	●	●	●	●	●	*3

*1Applicable when BRC1E62 is used
*2Applicable when wired remote controller is used
*3For the outdoor units
*4Applicable when BRC1C61 is used
*5Option

Compact & Sophisticated design

- FAQ100



	FAQ100BV	FAQ100C
Height	360mm	**340mm**
Width	1,570mm	**1,200mm**
Depth	200mm	**240mm**
Weight	26kg	**17kg**

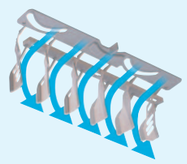
- Flaps neatly close when not in use

Comfortable

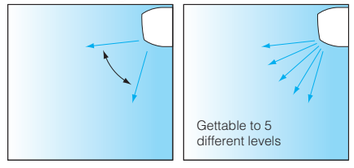
- Auto swing (up and down) and wide-angle louvers (left and right by hand) facilitate even room temperature

Wide-angle louvers (by hand)

Soft material louver bends airflow over a wider area

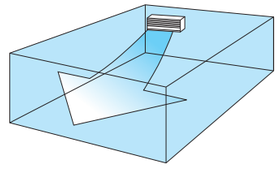


- An air discharge modes ensure comfortable air distribution across the entire room



- Comfort even on the far side of the room

To carry air to the far side of long rooms, extra-high airflow adds 10% more fan speed the "high" setting. Air discharge strength is selected from the remote controller by field setting.

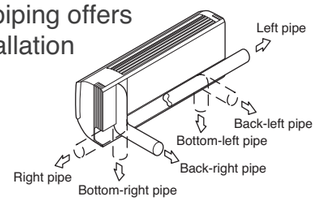


- Two selectable temperature-sensors
- Switchable fan speed: High/Middle/Low
- Auto airflow rate (When BRC1E62 is used)
- Programme "Dry"

Dehumidification is microprocessor controlled to prevent abrupt and uncomfortable changes in air temperature.

Easy installing and servicing

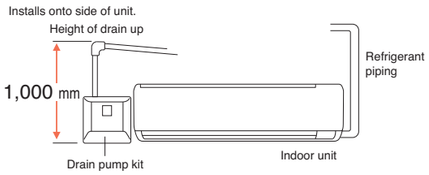
- 6-direction piping offers greater installation flexibility.



- Maintenance possible from the front of the unit

All maintenance tasks can be carried out via front access. During service work, attachment and detachment of parts is easier.

- Drain pump kit is available as option.

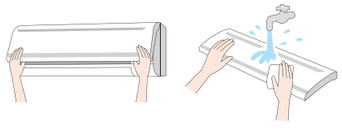


Drain pump kit can be installed on either left and right side of the air conditioner.

- Connection to a centralised control system is available without option

Easy cleaning

- Removable and washable grille



- Flat panel, easy to wipe dust off
- Non-flocking flaps

Condensation does not easily form on and dirt does not cling to non-flocking flaps.
It is easy to clean.

Enhance comfort using cleverly placed ducts

FBQ50/60/71/100/125/140DA

Option

Accessory required for indoor unit

Navigation Remote Controller

(Wired Remote Controller)

BRC1E62

Note: Remote controller cable not included. Cables must be procured locally.

Wireless LCD remote controller

A signal receiver must be added to the indoor unit.

BRC4C64

Signal receiver unit (Separate type)

Wireless remote controller and signal receiver unit are sold as a set.

Features

Comfort				Remote controller					Cleanliness		Work & Servicing					Control features								Option	Others
Switchable fan speed (2 step)	Programme "Dry"	Two selectable temperature-sensors	Night quiet operation	Setpoint auto reset	Setpoint range set	Weekly schedule timer	Off timer (programmed)	On/Off timer	Anti-bacterial air filter	Silver ion anti-bacterial drain pan	Pre charged for up to 30 m	Long-life filter	Filter sign	Low gas pressure detection	Emergency operation	Self-diagnosis function	Auto-restart	Control by 2 remote controllers	Group control by 1 remote controller	External command control	Central remote control	Interlock control	DIII-NET communication standard	High efficiency filter	Anti corrosion treated heat exchangers
●	●	*1	*2	*3	*3	*3	*3	*4	*5	●	*2	*5	●	*2	●	●	●	●	●	●	●	●	●	●	*2

*1Applicable when wired remote controller is used
*2For the outdoor units
*3Applicable when BRC1E62 is used
*4Applicable when BRC1C61 is used
*5Option

Increased freedom of design thanks to variable control over external static pressure

- Comfort airflow achieved in accordance with conditions such as duct length.

Using a DC fan motor, the external static pressure can be controlled within a range of 50 Pa to 200 Pa.

Freely control external static pressure

50 Pa ⟷ **200 Pa**

Set to low static pressure when ducts are short.

Set to high static pressure for advanced needs such as when using dampers and long ducts.

Thin, lightweight indoor unit makes delivery and installation easy.

- With a height of only 300 mm, installation is possible even in buildings with narrow ceiling spaces.

Indoor unit	50/60/71DA	100DA	125/140DA
Height (mm)	300		
Width (mm)	1,000	1,400	
Depth (mm)	700		
Machine weight (kg)	36	46	

Reduced installation time

- Use remote controller to adjust airflow

When testing standard integrated ceiling units that employ duct work, much time used to be required to adjust airflow to the right level. Thanks to the ability provided by Daikin to automatically perform this troublesome adjustment using a remote controller, this step is now quick and easy. (Adjust by H tap .)

1. Adjust to approximately ±10% of the rated H tap airflow.
2. Once actual operation has begun, adjustment of the rated airflow is not possible.

- Easier connection with the centralised control system

Quiet operation

dB(A)

	50/60/71DA	100DA	125/140DA
High	37	38	40
Low	32	33	36

Note : Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

Easy maintenance

Maintenance is easy because the drain pan can be removed.

Clean

- Silver ion anti-bacterial drain pan

Mould-proof drain pan includes a silver ion antibacterial agent that assists in preventing the growth of slime, bacteria, and mould that cause smells and clogging.

Comfortable

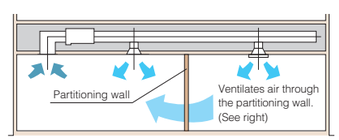
- Two selectable temperature-sensors

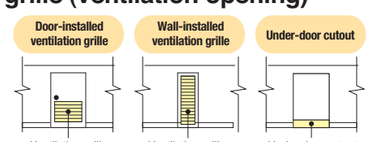
Both indoor unit and wired remote controller (option) contain temperature- sensors. Temperature sensing can be set at the unit or, to further improve comfort level, closer to the target area at the wired remote control.
This feature requires initial setting by the installer.

*Temperature-sensor on indoor unit must be used when the air conditioner is controlled from another room.
**Wireless remote controller does not have a temperature-sensor.

Simultaneous air conditioning of two rooms and ventilation grille (ventilation opening)

When air conditioning two rooms simultaneously, the air discharged into each room must be circulated back to the air conditioner. To achieve this, a ventilation duct should be installed for each room or one of the indicated ventilation grilles should be installed on the partitioning wall or under the door between the rooms.





Note: The under-door cutout method should be used only when there is a small volume of airflow.

New airflow control for more comfort

NEW FVQ50/60/71/100/125/140C

BRC1E62 can be incorporated into the main unit.

Option

Accessory required for indoor unit

Navigation Remote Controller

(Wired Remote Controller)

BRC1E62

Note: Remote controller cable not included. Cables must be procured locally.

Features

Comfort								Remote controller					Cleanliness	Work & Servicing						Control features								Others
Auto swing	Independent up-and-down airflow	Switchable fan speed (3 step)	Auto airflow rate	High fan speed mode	Programme "Dry"	Two selectable temperature-sensors	Night quiet operation	Setpoint auto reset	Setpoint range set	Weekly schedule timer	Off timer (programmed)	On/Off timer	Anti-bacterial air filter	Pre charged for up to 30 m	Long-life filter	Filter sign	Low gas pressure detection	Emergency operation	Self-diagnosis function	Auto-restart	Control by 2 remote controllers	Group control by 1 remote controller	External command control	Central remote control	Interlock control	DIII-NET communication standard	Anti corrosion treated heat exchangers
●	●	●	*1	*2	●	●	*3	*1	*1	*1	*1	*4	●	*3	●	●	*3	●	●	●	●	●	●	●	●	●	*3

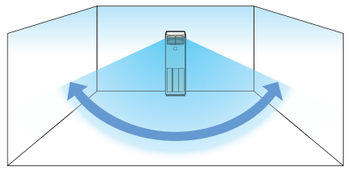
*1Applicable when BRC1E62 is used
*2Applicable for FVQ50-100
*3For the outdoor units
*4Applicable when BRC1C61 is used

New comfortable airflow control

1) Left and right directions (by remote controller)

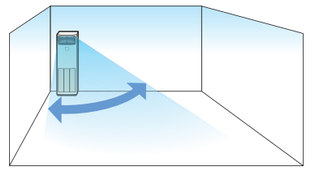
- Auto swing direction is selectable from 3 patterns to suit the layout of the room.

Pattern 1 Wide swing toward the front

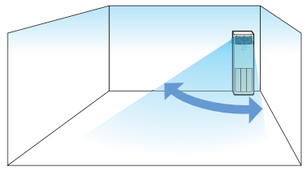


When installed in the center of a wall.

Pattern 2 Swing on the left side



Pattern 3 Swing on the right side



When installed in the corner of a room.

2) Up and down directions (by hand)

- Independent up-and-down airflow directions facilitate even room temperature and help save energy.

Freely select both up and down airflow direction with 8-louver (horizontal blade) operation.

New unit

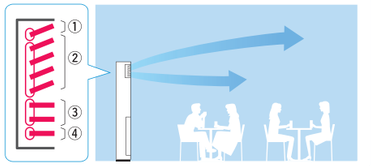
① Upper louver (1)
② Upper interlocking louvers (4)
③ Lower interlocking louvers (2)
④ Lower louver (1)

Each set of louvers ① to ④ can be independently adjusted. (Manual adjustment)

Example applications

When cooling

Turning louvers ① and ② upward and leaving ③ and ④ horizontal will reduce uneven room temperature.



Comfortable fan speed control

- Switchable fan speed: High/Middle/Low and Auto
  ("Auto" is applicable when BRC1E62 is used.)
- Auto airflow rate is selectable.
  Airflow rate is automatically controlled in accordance with the difference between room temperature and set temperature.
- High fan speed mode (applicable for FVQ50-100)
  To carry airflow to the far side of the room, airflow rate can be increased 5% or 10% depending on the installation condition or customer's request. (Field setting by remote controller.)
- Programme "Dry"
  Dehumidification is microprocessor controlled to prevent abrupt and uncomfortable changes in air temperature.

Energy saving

- A DC fan motor improves efficiency.

Quiet operation

dB(A)

Indoor unit	50/60/71C	100C	125C	140C
High	43	50	51	53
Middle	41	47	48	51
Low	38	44	46	48

Note : Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

Quick and easy installation and maintenance

- Lightweight indoor unit

  Enables smooth transport and installation of the indoor unit.

(kg)

Indoor unit	50/60/71C	100C	125C	140C
Weight	39	47		

- Long-life filter lasts about 1year * maintenance not required

  * For dust concentration of 0.15 mg/ m³
- Employs a safety lock function of suction grill.

  The grill will not open even upon impact.
- Easier connection with the centralised control system.

Super Inverter New Compact Outdoor unit

RZR50LVVM
RZR60LVVM
RZR71LVVM

RZR100LVVM

RZR125LVVM
RZR140LVVM
RZQ100KCTLT
RZQ125KCTLT
RZQ140KCTLT
RZQ100LUYLT
RZQ125LUYLT
RZQ140LUYLT

Easy installation and maintenance

Pre charged for up to 30 metres

If refrigerant piping length does not exceed 30 m, there is no need for on-site gas charging.

Long piping length

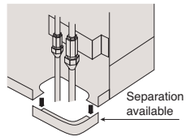
■ **Allowed refrigerant piping length and level difference**

	RZR50-140LV	RZQ100-140KC/LU
Pre charged[1]	30 m	
Max. length	50 m (Equivalent length 70m)	70 m (Equivalent length 90m)
Max. level difference	30 m	

Note : [1]Additional refrigerant charging is required if the refrigerant pipe is longer than the length.

4-direction piping offers greater layout freedom (RZR/RZQ100-140 only)

The outer panel for the piping connection part of the front, right side and backside can be removed and is easier for post-installation piping work.



Facilitates pump down (Refrigerant recovery function)

A pump-down switch is provided to make it easier to collect refrigerant if the unit is to be moved or layout modified.

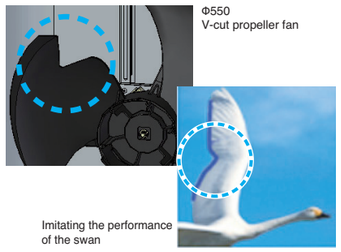
*Pump-down function is available for pre-charged refrigerant amount.

Low gas pressure detection function

Effective gas monitoring reduces the labor required for operation, maintenance, and repairs.

Energy saving

Through use of a V-cut propeller fan that imitates the efficiency of the swan, a migratory bird, airflow becomes smooth and loss is reduced.



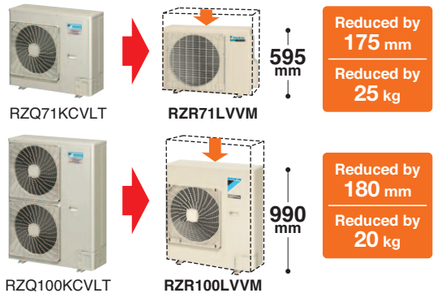
Compact and lightweight

Reduced installation work thanks to light, compact outdoor unit.

■ **Comparison of outdoor units**

Conventional (RZQ71KC)	NEW (RZR71LV)
Height 770 mm	595 mm
Weight 68 kg	43 kg

Conventional (RZQ100KC)	NEW (RZR100LV)
Height 1,170 mm	990 mm
Weight 98 kg	78 kg

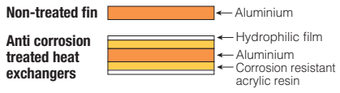


Durability

As the bottom frame is subject to corrosion, corrosion-proof galvarium steel plate is adopted to enhance the durability.

Heat exchange fins provided with anti-corrosion treatment

Construction



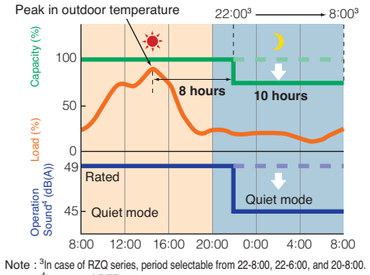
Night time quiet operation function

The Automatic night quiet mode will initiate 8 hours after the peak temperature is reached in the daytime, and normal operation will resume 10 hours after that.

★ Reducing noise will reduce capacity slightly.

	Sound level[1] (dB(A))	
	Rated[2]	Night Quiet Mode
RZR50/60/71LV	48	44
RZR100LV RZQ100/125/140KC RZQ100LU	49	45
RZR125LV RZQ125/140LU	50	45
RZR140LV	50	46

Note : [1]Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.
[2]Value when cooling. Value will differ when heating.

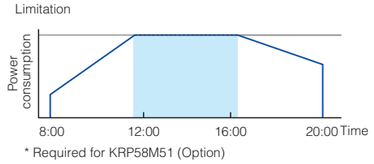


Note : [3]In case of RZQ series, period selectable from 22-8:00, 22-6:00, and 20-8:00.
[4]In case of RZR100

Demand Control Function

(RZR/RZQ100-140 only)

The maximum capacity is maintained within a set level of power consumption, which makes it possible to keep comfort and effective demand control.



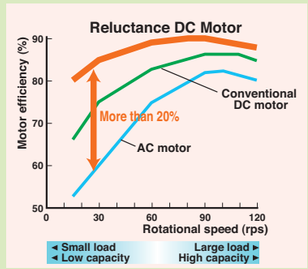
* Required for KRP58M51 (Option)

Technology for energy efficiency

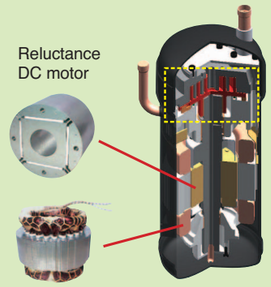
The high efficiency compressor to achieve a high COP

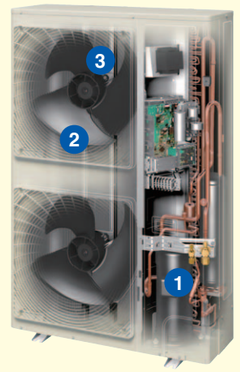
1 Compressor equiped with Reluctance DC motor

Daikin DC Inverter models are equipped with the Reluctance DC motor for compressor.
The Reluctance DC motor uses 2 different types of torque, neodymium magnet*1 and reluctance torque*2.
This motor can save energy because it generates more power with a smaller electric power than an AC or conventional DC motor.



Note: Data are based on studies conducted under controlled conditions at a Daikin laboratory.



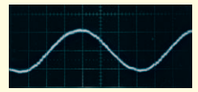


*1. A neodymium magnet is approximately 10 times stronger than a standard ferrite magnet.
*2. The torque created by the change in power between the iron and magnet parts.

>> Smooth sine wave DC inverter

Use of an optimised sine wave smoothes motor rotation, further improving operating efficiency.

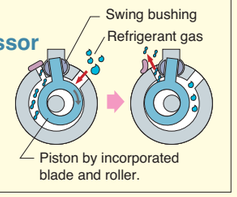
Sine wave DC inverter



RZR50/60/71/100LV

>> Swing compressor

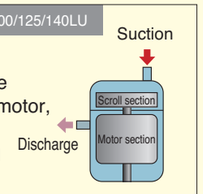
Energy savings is realised, eliminating the friction and the leakage of refrigerant gas.



RZR125/140LV, RZQ100/125/140KC, RZQ100/125/140LU

>> The structural scroll

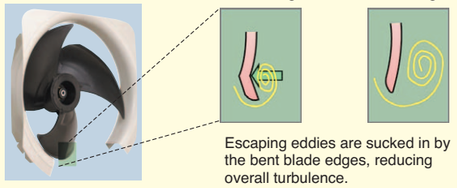
Sucked gas is compressed in the scrolling part before the heated motor, so that the machine compress the non-expanded gas, resulting in high efficiency compression.



2 Smooth Air Inlet Bell Mouth and Aero Spiral Fan

(RZR/RZQ100-140 only)

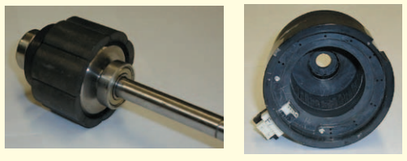
These two features work to reduce noise. Guides are added to the bell mouth intake to reduce turbulence in the airflow generated by fan suction. The Aero Spiral Fan features fan blades with the bent blade edges, further reducing turbulence.


With the bent blade edge
Without the bent blade edge
Escaping eddies are sucked in by the bent blade edges, reducing overall turbulence.

3 DC fan motor

Efficiency improved in all areas compared to AC motors, especially at low speeds.

DC fan motor structure

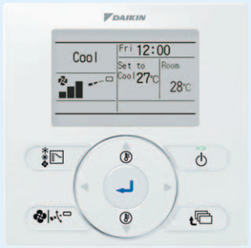


Easy-to-read LCD remote controller allows various system control configurations and can control multiple indoor units.

Remote controller options are shown on the page introducing each indoor unit model.

Navigation Remote Controller (Wired Remote Controller BRC1E62)

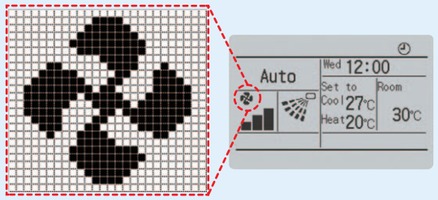
NEW



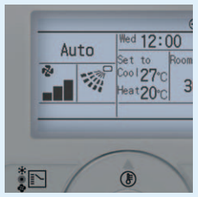
This simple, modern designed remote controller with fresh white colour matches your interior design. Operation is much easier and smoother, just follow the indications on the navigation remote controller.

Clear Display

Dot matrix display
A combination of fine dots enables various icons. Large text display is easy to see.



Backlight display



Energy saving

NEW Setpoint auto reset

- Even if the set temperature is changed, it returns to the preset temperature after apreset period of time.
- Period selectable from 30min/60min/90min/120min.

Restaurant sample

Restaurant opened	Full tables at lunchtime	After 30 minutes*
Temperature is set to 27°C	Then is lowered to 24°C for crowded room	Automatically returns to preset temperature (27°C)

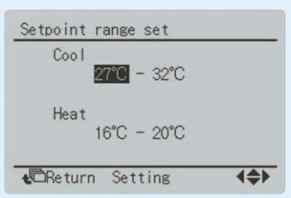
*Setting possible for after 30, 60, 90, and 120 minutes.

Off timer (programmed)

- Sets and saves setting for an increment of time that automatically turns off air conditioner after a preset period of time for each time operation starts.
- Period can be preset from 30 to 180 minutes in10-minute increments.

NEW Setpoint range set

- Saves energy by limiting the min. and max. set temperature.
- Avoids excessive heating or cooling.
- This function is convenient when the remote controller is installed at a place where any number of people may operate it.

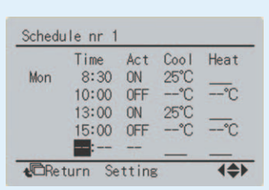


Convenience

Weekly schedule

- 5 actions per day can be scheduled for each day of the week.
- The holiday function will disable schedule timer for the days that have been set as holiday.

NEW - 3 independent schedules can be set. (e.g. summer, winter, mid-season)



Multilingual display

Display is available in 11 languages.

(English, German, French, Spanish, Italian, Portuguese, Greek, Dutch, Russian, Turkish, and Polish).

Wired LCD remote controller

Easy to read because of large LCD screen.

BRC1C61

- The rubber switch and the oil-resistant plastic casing are adopted for durability.
- Only 17 mm thick. Can be installed either recessed or exposed.

LCD wireless remote controller

Light receptor mounted type

Wireless remote controller

BRC7F633F

Signal receiver unit (For ceiling mounted cassette type)

- The wireless remote controller is supplied in a set with a signal receiver.
- Shape of signal receiver unit differs according to the indoor unit.

Note: The signal receiver unit shown in the photograph is for mounting inside the decoration panel of the ceiling mounted cassette type.

Wired remote controller has built-in temperature-sensor

(Applies to wired remote controllers (BRC1C61/1E62))

- Enables temperature sensing closer to target area for improved comfort. (When using remote control from another room, temperature-sensor in indoor unit's air inlet must be selected.)

Facilitates maintenance and repair

- All initial settings can be set from the remote controller. After interior construction is complete, ceiling mounted cassette type can be remotely set without having to use stepladder access for manual setting.
  Setting contents: High ceiling use, air direction, filter type, address for centralised control (group control address is set automatically).
- Remote controller is equipped with model name and failure display functions. This facilitates service in the unlikely event of a malfunction.
  (Applies to wired remote controller (BRC1E62))

SkyAir shares common control with Heat Reclaim Ventilator and the other Daikin air-conditioning units, thus simplifying interlocking operations.

- Easily adaptable to large-scale, high-function, centralised remote control systems. Installing and connecting control wiring between SkyAir and other Daikin air-conditioning equipment is easy.

Indoor units applicable for the remote controller

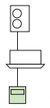
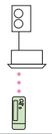
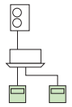
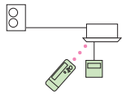
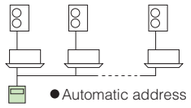
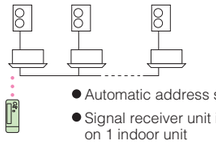
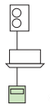
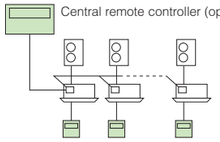
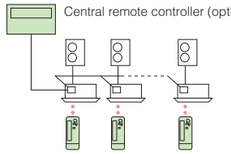
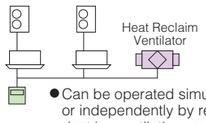
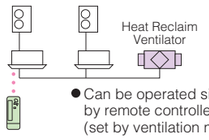
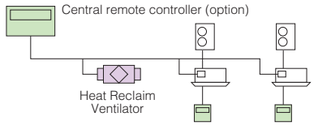
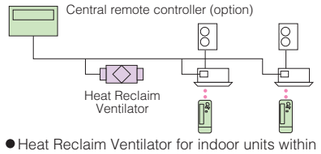
Signal receiver unit is contained inside decoration panel or indoor unit

CEILING MOUNTED CASSETTE TYPE	BRC7F633F
CEILING SUSPENDED TYPE	BRC7GA56
WALL MOUNTED TYPE	BRC7EB519
DUCT CONNECTION MIDDLE and HIGH STATIC PRESSURE TYPE	BRC4C64

LCD panel shows operating status in letters, numbers, and motion.

Airflow / swing display	Displays auto-swing operating status and setting position of air discharge angle.
Preset temperature / operation mode display	Displays preset room temperature and operating status (fan, dry, cool).
Programming time display	Operation start and stop time can be set for individual timers up to 72 hours. The LCD also shows when it is time to clean the filter, when changeover is under centralised control, and ventilation/cleaning.
Self-diagnosis function	Monitors operating status within the system covering 40 items, and displays a message to indicate as soon as a malfunction occurs.

Simple system provides a diverse assortment of control modes.

	Control pattern	Wired remote controller	Wireless remote controller
Control by 1 remote controller	(Basic system)	 ● Non-polar, double-core (max. wiring length 500 m)	 ● Signal receiver unit installed on indoor unit
Control by 2 remote controllers	For control from 2 locations such as in room and control room, exits, etc.	 ● Connects 2 wired remote controllers (See note 1)	 ● Control by 1 wireless remote controller and 1 wired remote controller (See note 2, 3) ● Signal receiver unit installed on indoor unit
Group control	For simultaneous control of up to 16 indoor units.	 ● Automatic address setting function	 ● Automatic address setting function ● Signal receiver unit installed on 1 indoor unit
Control by external command	Operation and surveillance is carried out using the contact signal from the operation control box in the building surveillance (security) room.	 ● Optional wiring adaptor for electrical appendices is necessary	● Optional wiring adaptor for electrical appendices is necessary
Centralised remote control	Centralised control of up to 64 indoor groups from remote location up to 1 kilometer away.	 Central remote controller (option)	 Central remote controller (option)
Interlock control with Heat Reclaim Ventilator	Link by remote controller group control.	 Heat Reclaim Ventilator ● Can be operated simultaneously or independently by remote controller (set by ventilation mode)	 Heat Reclaim Ventilator ● Can be operated simultaneously by remote controller (set by ventilation mode)
	Zone link control by centralised control.	 Central remote controller (option) Heat Reclaim Ventilator ● Heat Reclaim Ventilator for indoor units within a zone are operated by interlocking Can also be operated independently by remote controller.	 Central remote controller (option) Heat Reclaim Ventilator ● Heat Reclaim Ventilator for indoor units within a zone are operated by interlocking

Note: [1]BRC1E62 can connect to BRC1E62 only.
[2]It is not possible to use two wireless remote controllers.
[3]BRC1E62 cannot connect to wireless remote controller.

Easily adaptable to large-scale, high-function, centralised remote control system.

Central remote controller

DCS302CA61 (Option)

Centralised control, with setting as simple as it is with a standard remote controller, of up to 64 groups (1,024 indoor units) is possible.

Unified on/off controller

DCS301BA61 (Option)

Centralised control of on/off by group or all at once for up to 256 indoor units.

Schedule timer

DST301BA61 (Option)

Unified control of weekly schedule for up to 1,024 indoor units.
Schedule timer sets on/off time in 1 minute units to be executed twice a day for a week at a time.

intelligent touch Controller

DCS601C51 (Option)

With its high functionality, the full colour “all-in-one” graphic controller facilitates management of SkyAir System in a variety of ways.

Abundance of functions that provide comfortable air-conditioning in stores and offices.

• Note: Some features only available on selected models. See model pages for full list of features applicable to each unit.

Comfort

Auto-swing

Delivers comfortable air-conditioning to all areas, near to and far from the air-conditioner.

■ The air flow direction can be fixed at your desited angle by the remote controller.

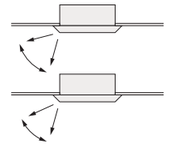
Swing pattern selection

(standard, ceiling soiling prevention)

You can freely set 2 air discharge setting by remote controller.

(1) Air direction in standard setting

(2) Air direction in ceiling soiling prevention setting



Independent up-and-down airflow

Independently adjust (manually) the eight horizontal blade louvers in both up and down directions to achieve an airflow that reduces uneven room temperature.

Switchable fan speed

High setting provides maximum reach while low setting minimises drafts.

Auto airflow rate

Airflow rate is automatically controlled in accordance with the difference between room temperature and set temperature.

High fan speed mode

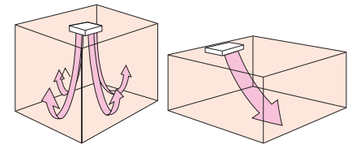
You can increase fan speed approximately 10% higher than the "high" setting.
Applicable for wall mounted type

Programme "Dry"

Dehumidification is microprocessor controlled to prevent abrupt and uncomfortable changes in air temperature. Useful for reducing uncomfortable humidity without uncomfortable cooling of the room.

High-ceiling application

Delivers air-conditioning comfort all the way down to the floor in air-conditioning zones with high ceilings.

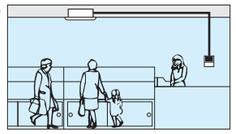


Note:When units are installed on high ceilings, depending on the model, various restrictions concerning maximum height, air discharge direction, and choice of options may apply.

Two selectable temperature-sensors

Temperature-sensors are included in the indoor unit and optional wired remote controller. Temperature sensing closer to target area is possible to further increase the comfort level.

● Use the temperature-sensor in the indoor unit when controlling air conditioning from another room.



Note: Wireless remote controllers have no temperature-sensor.

Night quiet operation

The Automatic night quiet mode will initiate 8 hours after the peak temperature is reached in the daytime, and normal operation will resume 10 hours after that.

Remote Controller

Setpoint auto reset

Even if the set temperature is changed, it returns to the preset temperature after a preset period of time.

Setpoint range set

Saves energy by limiting the minimum and maximum set temperatures. Avoids excessive heating and cooling.

Weekly schedule timer

Up to five operation ON/OFF settings can be programmed per day for each day of the week. Not only can the time be set for the operation ON setting, but also the temperature.

Off timer (programmed)

Sets and saves setting for an increment of time that automatically turns off air conditioner after a preset period of time for each time operation starts.

On/Off timer

Operation starts when the preset time of the ON timer elapses and stops when the preset time of the OFF timer elapses.

Cleanliness

Anti-bacterial air filter

The Air filter has a anti-bacterial treatment to help prevent the growth of bacteria and mould on it.

Mould-proof air filter

Sanitary filter has mould-resistant treatment.

Silver ion anti-bacterial drain pan

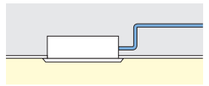
Mould-proof drain pan includes a silver ion antibacterial agent that assists in preventing the growth of slime, bacteria, and mould that cause smells and clogging.

• Note: Some features only available on selected models. See model pages for full list of features applicable to each unit.

Work and Servicing

Drain pump mechanism

Steeper gradient realises more efficient condensate drainage. High-lift is especially useful for long lengths of drain piping.



Pre charged for up to 30 metres

If refrigerant piping length does not exceed 30 m, there is no need for on-site gas charging.

Long-life filter

Maintenance is not required for one year (two years when a ceiling mounted cassette type is used).

Filter sign

The filter sign warns you when it is time to clean the filter.

*When using a wired remote controller the sign is displayed in the LCD. When using a wireless remote controller the filter sign lamp illuminates on the signal receiver unit.

Ceiling soiling prevention function

Daikin's innovative air discharge mechanism keeps airflow away from the ceiling. Ceiling cleaning is less frequently required.

Low gas pressure detection

Insufficient gas charging is normally hard to detect. During post-installation trials and regular inspection procedures, the refrigerant level is monitored by microprocessor to maintain proper gas pressure. Reliability is assured and maintenance and inspection can be carried out more quickly.

Emergency operation

If there is a malfunction elsewhere in the system, the fan or compressor can still be operated.

Self diagnosis function

The operating parameters of indoor and outdoor units, and sensor data at critical locations throughout the system, are constantly monitored using a microcomputer. To facilitate quick response in the event of a malfunction, a message appears on the LCD of the remote controller and an LED on the unit illuminates.

Control features

Auto-restart

If there is a power outage while the equipment is operating, operations will restart in the same mode as before the power cut when electricity is restored.

Control by 2 remote controllers

Using 2 remote controllers you can operate the equipment locally or from a remote location.

Note: When a wireless remote controller is used, remote control by two remote controllers is not possible.

Group control by 1 remote controller

You can turn up to 16 indoor units on/off with a single remote controller. (When using connected indoor units, the settings must all be the same and on/off will be simultaneous.)

External command control

Operation and surveillance is carried out using the contact signal from the operation control box in the building surveillance (security) room.

*Required for KRP58M51 (Option)

Central remote control

Optional central remote controller enables centralised control of up to 1024 indoor units (64 groups) from up to 1 kilometer away.

Interlock control

Enables interlocking control with external equipment such as Heat Reclaim Ventilator.

DIII-NET communication standard

Standardly equipped interface enables connection to centralised control system without need of an adaptor.

Options

High-efficiency filter unit

Two types are available: 65% and 90% colorimetry.

Ultra long-life filter

Requires no maintenance for about 4 years* (10,000h) in stores and offices.

*For dust concentration of 0.15 mg/m^3

Fresh-air intake kit

You can provide air-conditioning with fresh air from outside. Convenient for places where a ventilation fan cannot be installed.

Note: *Connecting ducts, insect nets, fire dampers, air filters, and other parts should, as required, be procured locally.
**Outside Air fan interlocked with air conditioning unit is necessary. Optional PCB(KRP1C63)is required for interlocking.
***It is recommended that the volume of outdoor air introduced through the kit is limited to 10% of the maximum airflow rate of the indoor unit. Introducing higher quantities will increase the operating noise and may also influence temperature sending.

Others

Anti corrosion treated heat exchangers

To achieve increased durability by improved resistance to salt corrosion and atmospheric pollution, coated Anti corrosion treated heat exchangers (with special acryl pretreatment) are used for the heat exchanger of the outdoor unit.
In high corrosive areas, regular maintenance needs to be carried out.

SPECIFICATIONS

CEILING MOUNTED CASSETTE TYPE

Model Name				50	60	71	100	125	140	125	140
	Indoor unit			FCQ50KVEA	FCQ60KVEA	FCQ71KVEA	FCQ100KVEA	FCQ125KVEA	FCQ140KVEA	FCQ60KVEAx2	FCQ71KVEAx2
	Outdoor unit			RZR50LVVM	RZR60LVVM	RZR71LVVM	RZR100LVVM	RZR125LVVM	RZR140LVVM	RZR125LVVM	RZR140LVVM
Power supply	Outdoor unit			1 Phase, 220–230 V, 60 Hz							
Cooling capacity[1,2] Rated (Min. - Max.)			kW	5.0 (2.3-5.6)	6.0 (2.6-6.3)	7.1 (3.2-8.0)	10.0 (5.0-11.2)	12.5 (5.7-14.0)	14.0 (6.2-15.4)	12.5 (5.7-14.0)	14.0 (6.2-15.4)
Power consumption	Cooling		kW	1.03	1.40	1.99	2.78	3.68	4.91	3.68	4.91
COP			W/W	4.87	4.30	3.57	3.60	3.40	2.85	3.40	2.85
Indoor unit	Colour	Unit		———							
		Decoration panel		Fresh white							
	Airflow rate (H/L)		m^3/min	21/13.5			32/20	33/22.5		21/13.5	
			cfm	741/477			1,130/706	1,165/794		741/477	
	Sound level (H/L)[3]		dB(A)	35/28			43/32	44/34	44/36	35/28	
	Dimensions (H×W×D)	Unit	mm	256×840×840			298×840×840			256×840×840	
		Decoration panel	mm	50×950×950							
	Machine weight	Unit	kg	21			24			21	
		Decoration panel	kg	5.5							
	Certified Operation range	Cooling	°CWB	14 to 25							
Outdoor unit	Colour			Ivory white							
	Compressor	Type		Hermetically sealed swing type				Hermetically sealed scroll type			
		Motor output	kW	1.12	1.35	1.76	2.03	2.4	3.1	2.4	3.1
	Refrigerant charge (R-410A)		kg	1.6 (Charged for 30 m)			2.7 (Charged for 30 m)	3.15 (Charged for 30 m)			
	Sound level[3]	Cooling	dB(A)	48			49	50			
		Night quiet mode	dB(A)	44			45		46	45	46
	Dimensions (H×W×D)		mm	595×845×300			990×940×320	1,170×900×320			
	Machine weight		kg	43			78	97			
	Certified Operation range	Cooling	°CDB	21 to 46							
Piping connections	Liquid (Flare)		mm	ø9.5							
	Gas (Flare)		mm	ø15.9							
	Drain	Indoor unit	mm	VP25 (I.Dø25×O.Dø32)							
		Outdoor unit	mm	ø26.0 (Hole)							
Max. interunit piping length			m	50 (Equivalent length 70)							
Max. installation level difference			m	30							
Heat insulation				Both liquid and gas piping							

Model Name				100	125	140	100	125	140
	Indoor unit			FCQ100KVLT	FCQ125KAVLT	FCQ140KAVLT	FCQ100KVLT	FCQ125KAVLT	FCQ140KAVLT
	Outdoor unit			RZQ100KCTLT	RZQ125KCTLT	RZQ140KCTLT	RZQ100LUYLT	RZQ125LUYLT	RZQ140LUYLT
Power supply	Outdoor unit			3 Phase, 220V, 60Hz			3 Phase, 380V, 60Hz		
Cooling capacity[1,2] Rated (Min. - Max.)			kW	10.0 (5.0–11.4)	12.5 (6.0–14.3)	13.3 (6.2–15.8)	10.0 (5.0–11.4)	12.5 (6.0–14.3)	13.1 (6.2–15.8)
Power consumption	Cooling		kW	2.77	3.47	3.91	2.77	3.51	3.85
COP			W/W	3.61	3.60	3.40	3.61	3.56	3.40
Indoor unit	Colour	Unit		———					
		Decoration panel		Fresh white					
	Airflow rate (H/L)		m^3/min	32/20	33/22.5		32/20	33/22.5	
			cfm	1,130/706	1,165/794		1,130/706	1,165/794	
	Sound level (H/L)[3]		dB(A)	43/32	44/34	44/36	43/32	44/34	44/36
	Dimensions (H×W×D)	Unit	mm	298×840×840					
		Decoration panel	mm	50×950×950					
	Machine weight	Unit	kg	24					
		Decoration panel	kg	5.5					
	Certified Operation range	Cooling	°CWB	14 to 25					
Outdoor unit	Colour			Ivory white					
	Compressor	Type		Hermetically sealed scroll type					
		Motor output	kW	1.9	2.4	2.9	1.8	2.4	2.9
	Refrigerant charge (R-410A)		kg	3.7 (Charged for 30 m)					
	Sound level[3]	Cooling	dB(A)	49				50	
		Night quiet mode	dB(A)	45					
	Dimensions (H×W×D)		mm	1,170×900×320					
	Machine weight		kg	99			101		
	Certified Operation range	Cooling	°CDB	-5 to 50					
Piping connections	Liquid (Flare)		mm	ø9.5					
	Gas (Flare)		mm	ø15.9					
	Drain	Indoor unit	mm	VP25 (I.Dø25×O.Dø32)					
		Outdoor unit	mm	ø26.0 (Hole)					
Max. interunit piping length			m	70 (Equivalent length 90 m)					
Max. installation level difference			m	30					
Heat insulation				Both liquid and gas piping					

Note :
[1]Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal).
[2]Capacities are net, including a deduction for cooling for indoor fan motor heat.
[3]Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

SPECIFICATIONS

CEILING SUSPENDED TYPE

Model Name				71	100	125	140
	Indoor unit			FHQ71CAVEB	FHQ100CAVEB	FHQ125CAVEB	FHQ140CAVEB
	Outdoor unit			RZR71LVVM	RZR100LVVM	RZR125LVVM	RZR140LVVM
Power supply	Outdoor unit			1 Phase, 220–230 V, 60 Hz			1 Phase, 220–240 V, 50 Hz/ 220–230 V, 60 Hz
Cooling capacity[1,2] Rated (Min. - Max.)			kW	7.1 (3.2-8.0)	10.0 (5.0-11.2)	12.5 (5.7-14.0)	13.3 (6.2-15.4)
Power consumption		Cooling	kW	2.37	3.03	4.01	4.68
COP			W/W	3.00	3.30	3.12	2.84
Indoor unit	Colour			Fresh white			
	Airflow rate (SH/H/L)		m³/min	20.5/17/14	28/24/20	31/27/23	34/29/24
			cfm	724/600/494	988/847/706	1,094/953/812	1,200/1,024/847
	Sound level (H/M/L)[3]		dB(A)	38/36/34	42/38/34	44/41/37	46/42/38
	Dimensions (H×W×D)		mm	235×1,270×690	235×1,590×690		
	Machine weight		kg	32	38		
	Certified operation range		°CWB	14 to 25			
Outdoor unit	Colour			Ivory white			
	Compressor	Type		Hermetically sealed swing type		Hermetically sealed scroll type	
		Motor output	kW	1.76	2.03	2.4	3.1
	Refrigerant charge (R-410A)		kg	1.6 (Charged for 30 m)	2.7 (Charged for 30 m)	3.15 (Charged for 30 m)	
	Sound level[3]	Cooling	dB(A)	48	49	50	
		Night quiet mode	dB(A)	44	45		46
	Dimensions (H×W×D)		mm	595×845×300	990×940×320	1,170×900×320	
	Machine weight		kg	43	78	97	
	Certified operation range		°CDB	21 to 46			
Piping connections	Liquid (Flare)		mm	ø9.5			
	Gas (Flare)		mm	ø15.9			
	Drain	Indoor unit	mm	VP20 (I.Dø20×O.Dø26)			
		Outdoor unit	mm	ø26.0 (Hole)			
Max. interunit piping length			m	50 (Equivalent length 70)			
Max. installation level difference			m	30			
Heat insulation				Both liquid and gas piping			

Note :
[1]Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal).
[2]Capacities are net, including a deduction for cooling for indoor fan motor heat.
[3]Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

WALL MOUNTED TYPE

Model Name				71	100
	Indoor unit			FAQ71CVEA	FAQ100CVEA
	Outdoor unit			RZR71LVVM	RZR100LVVM
Power supply	Outdoor unit			1 Phase, 220–240 V, 50 Hz/220–230 V, 60 Hz	
Cooling capacity[1,2] Rated (Min. - Max.)			kW	7.1 (3.2-8.0)	10.0 (5.0-11.2)
Power consumption		Cooling[1]	kW	2.19	3.37
COP			W/W	3.24	2.97
Indoor unit	Colour			Fresh white	
	Airflow rate (H/M/L)		m³/min	18/16/14	26/23/19
			cfm	635/565/494	918/812/671
	Sound level (H/M/L)[3]		dB(A)	45/42/40	49/45/41
	Dimensions (HXWXD)		mm	290×1,050×238	340×1,200×240
	Machine weight		kg	13	17
	Certified Operation range		°CWB	14 to 25	
Outdoor unit	Colour			Ivory white	
	Compressor	Type		Hermetically sealed swing type	
		Motor output	kW	1.76	2.03
	Refrigerant charge (R-410A)		kg	1.6 (Charged for 30 m)	2.7 (Charged for 30 m)
	Sound level[3]	Cooling	dB(A)	48	49
		Night quiet mode	dB(A)	44	45
	Dimensions (H×W×D)		mm	595×845×300	900×940×320
	Machine weight		kg	43	78
	Certified Operation range		°CDB	21 to 46	
Piping connections	Liquid (Flare)		mm	ø9.5	
	Gas (Flare)		mm	ø15.9	
	Drain	Indoor unit	mm	VP13 (O.Dø18 × I.Dø13)	
		Outdoor unit	mm	ø26.0 (Hole)	
Max. interunit piping length			m	50 (Equivalent length 70m)	
Max. installation level difference			m	30	
Heat insulation				Both liquid and gas piping	

Note :
[1]Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal).
[2]Capacities are net, including a deduction for cooling for indoor fan motor heat.
[3]Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

DUCT CONNECTION MIDDLE and HIGH STATIC PRESSURE TYPE

Model Name					50	60	71	100	125	140	125	140
	Indoor unit				FBQ50DAVET	FBQ60DAVET	FBQ71DAVET	FBQ100DAVET	FBQ125DAVET	FBQ140DAVET	FBQ60DAVETx2	FBQ71DAVETx2
	Outdoor unit				RZR50LVVM	RZR60LVVM	RZR71LVVM	RZR100LVVM	RZR125LVVM	RZR140LVVM	RZR125LVVM	RZR140LVVM
Power supply	Indoor unit				1 Phase, 220 V, 60 Hz							
	Outdoor unit				1 Phase, 220–230 V, 60 Hz							
Cooling capacity[1,2] Rated (Min. - Max.)				kW	5.0 (2.3-5.6)	6.0 (2.6-6.3)	7.1 (3.2-8.0)	10.0 (5.0-11.2)	12.5 (5.7-14.0)	14.0 (6.2-15.4)	12.5 (5.7-14.0)	14.0 (6.2-15.4)
Power consumption			Cooling	kW	1.39	1.69	2.22	2.82	3.73	4.71	3.73	4.71
COP				W/W	3.60	3.56	3.20	3.55	3.35	2.97	3.35	2.97
Indoor unit	Colour				———							
	Fan	Airflow rate (H/L)	Cooling	m³/min	18/15			32/23	39/28		18/15	
				cfm	635/530			1,130/812	1,377/988		635/530	
		External static pressure (Middle-High)		Pa	50-200 [3]							
	Sound level[4]		Cooling (H/L)	dB(A)	37/32			38/33	40/36		37/32	
	Air filter				——— [5]							
	Dimensions (H×W×D)			mm	300×1,000×700			300×1,400×700			300×1,000×700	
	Machine weight			kg	36			46			36	
	Certified Operation range		Cooling	°CWB	14 to 25							
Outdoor unit	Colour				Ivory white							
	Compressor	Type			Hermetically sealed swing type				Hermetically sealed scroll type			
		Motor output		kW	1.12	1.35	1.76	2.03	2.4	2.9	2.4	2.9
	Refrigerant charge (R-410A)			kg	1.6 (Charged for 30 m)			2.7 (Charged for 30 m)	3.15 (Charged for 30 m)			
	Sound level[4]		Cooling	dB(A)	48			49	50			
			Night quiet mode	dB(A)	44			45		46	45	46
	Dimensions (H×W×D)			mm	595×845×300			990×940×320	1,170×900×320			
	Machine weight			kg	43			78	97			
	Certified Operation range		Cooling	°CDB	21 to 46							
Piping connections	Liquid (Flare)			mm	ø9.5							
	Gas (Flare)			mm	ø15.9							
	Drain		Indoor unit	mm	VP25 (I.Dø25×O.Dø32)							
			Outdoor unit	mm	ø26.0 (Hole)							
Max. interunit piping length				m	50 (Equivalent length 70)							
Max. installation level difference				m	30							
Heat insulation					Both liquid and gas piping							

Model Name					100	125	140	100	125	140
	Indoor unit				FBQ100DAVET	FBQ125DAVET	FBQ140DAVET	FBQ100DAVET	FBQ125DAVET	FBQ140DAVET
	Outdoor unit				RZQ100KCTLT	RZQ125KCTLT	RZQ140KCTLT	RZQ100LUYLT	RZQ125LUYLT	RZQ140LUYLT
Power supply	Indoor unit				1 Phase, 220V, 60Hz					
	Outdoor unit				3 Phase, 220V, 60Hz			3 Phase, 380V, 60Hz		
Cooling capacity[1,2] Rated (Min. - Max.)				kW	10.0 (5.0–11.4)	12.5 (6.0–14.3)	13.3 (6.2–15.8)	10.0 (5.0–11.4)	12.5 (6.0–14.3)	13.1 (6.2–15.8)
Power consumption			Cooling	kW	3.13	3.96	4.22	3.13	3.96	4.16
COP				W/W	3.19	3.16	3.15	3.19	3.16	3.15
Indoor unit	Colour				———					
	Fan	Airflow rate (H/L)	Cooling	m³/min	32 / 23	39 / 28		32 / 23	39 / 28	
				cfm	1,130 / 812	1,377 / 988		1,130 / 812	1,377 / 988	
		External static pressure (Middle-High)		Pa	50-200 [3]					
	Sound level[4]		Cooling (H/L)	dB(A)	38 / 33	40 /36		38 / 33	40 /36	
	Air filter				——— [5]					
	Dimensions (H×W×D)			mm	300×1,400×700					
	Machine weight			kg	46					
	Certified Operation range		Cooling	°CWB	14 to 25					
Outdoor unit	Colour				Ivory white					
	Compressor	Type			Hermetically sealed scroll type					
		Motor output		kW	1.9	2.4	2.9	1.8	2.4	2.9
	Refrigerant charge (R-410A)			kg	3.7 (Charged for 30 m)					
	Sound level[4]		Cooling	dB(A)	49			50		
			Night quiet mode	dB(A)	45					
	Dimensions (H×W×D)			mm	1,170×900×320					
	Machine weight			kg	99			101		
	Certified Operation range		Cooling	°CDB	-5 to 50					
Piping connections	Liquid (Flare)			mm	ø9.5					
	Gas (Flare)			mm	ø15.9					
	Drain		Indoor unit	mm	VP25 (I.Dø25×O.Dø32)					
			Outdoor unit	mm	ø26.0 (Hole)					
Max. interunit piping length				m	70 (Equivalent length 90 m)					
Max. installation level difference				m	30					
Heat insulation					Both liquid and gas piping					

Note :
[1]Rated cooling capacities are based on the following conditions: Suction temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal)
[2]Capacities are net, including a deduction for cooling for indoor fan motor heat.
[3]Initial setting is standard.
[4]Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.
[5]Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency(gravity method) 50% or more.

SPECIFICATIONS

FLOOR STANDING TYPE

Model Name					50	60	71	100	125	140	125	140
	Indoor unit				FVQ50CVE	FVQ60CVE	FVQ71CVEB	FVQ100CVEB	FVQ125CVEB	FVQ140CVEB	FVQ60CVEx2	FVQ71CVEBx2
	Outdoor unit				RZR50LVVM	RZR60LVVM	RZR71LVVM	RZR100LVVM	RZR125LVVM	RZR140LVVM	RZR125LVVM	RZR140LVVM
Power supply	Outdoor unit				1 Phase, 220–240 V, 50 Hz/220–230 V, 60 Hz							
Cooling capacity[1,2] Rated (Min. - Max.)				kW	5.0 (2.3-5,6)	6.0 (2.6-6.3)	7.1 (3.2-8.0)	10.0 (5.0-11.2)	12.5 (5.7-14.0)	13.5 (6.2-15.4)	12.5 (5.7-14.0)	13.5 (6.2-15.4)
Power consumption			Cooling	kW	1.27	1.84	2.58	3.28	4.39	5.40	4.39	5.40
COP				W/W	3.94	3.26	2.75	3.05	2.85	2.50	2.85	2.50
Indoor unit	Colour				Fresh white							
	Fan	Airflow rate (H/M/L)	Cooling	m³/min	18/16/14			28/25/22	28/26/24	30/28/26	18/16/14	
				cfm	635/565/494			988/883/777	988/918/847	1,059/988/918	635/565/494	
	Sound level[3]	Cooling (H/M/L)		dB(A)	43/41/38			50/47/44	51/48/46	53/51/48	43/41/38	
	Dimensions (H×W×D)			mm	1,850×600×270			1,850×600×350			1,850×600×270	
	Machine weight			kg	39			47			39	
	Certified Operation range		Cooling	°CWB	14 to 25							
Outdoor unit	Colour				Ivory white							
	Compressor	Type			Hermetically sealed swing type				Hermetically sealed scroll type			
		Motor output		kW	1.12	1.35	1.76	2.03	2.4	3.1	2.4	3.1
	Refrigerant charge (R-410A)			kg	1.6 (Charged for 30 m)			2.7 (Charged for 30 m)	3.15 (Charged for 30 m)			
	Sound level[3]	Cooling		dB(A)	48			49	50			
		Night quiet mode		dB(A)	44			45	46		45	46
	Dimensions (H×W×D)			mm	595×845×300			990×940×320	1,170×900×320			
	Machine weight			kg	43			78	97		97	
	Certified Operation range		Cooling	°CDB	21 to 46							
Piping connections	Liquid (Flare)			mm	ø9.5							
	Gas (Flare)			mm	ø15.9							
	Drain		Indoor unit	mm	VP20 (I.Dø20×O.Dø26)							
			Outdoor unit	mm	ø26.0 (Hole)							
Max. interunit piping length				m	50 (Equivalent length 70)							
Max. installation level difference				m	30							
Heat insulation					Both liquid and gas piping							

Note :
[1]Rated cooling capacities are based on the following conditions: Suction temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal)
[2]Capacities are net, including a deduction for cooling for indoor fan motor heat.
[3]Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

Round flow type: List of optional parts required to achieve different flow patterns

For each flow pattern – all round, 4-way, 3-way, 2-way, branch duct connection – the compatibility of each independently installed option (shown in the column on the left) to accessory options (listed across the top of each table) is shown in the cells where the relevant row and column intersect.
A circle (○) indicates compatibility, and a cross (×) indicates incompatibility. Any options not shown below are not suitable for independent or accessory installation.

All round flow 4-way flow

Independently installable optional parts \ Optional accessory parts		Panel spacer[1]	Wireless remote controller	Fresh air intake kit (Chamber type)[1,2]	Fresh air intake kit (direct mount)	High-humidity operation kit	High-efficiency filter[2]	Ultra-long-life filter[2]
Panel/grille related	Panel spacer[1]		○	○	○	×	○	○
Operation control related	Wireless remote controller	○		○	○	○	○	○
Auxillary function related	Fresh air intake kit (Chamber type)[1,2]	○	○		×	×	○	○
	Fresh air intake kit (direct mount)	○	○	×		○	○	○
	High-humidity operation kit	×	○	×	○		×	×
Filter related	High-efficiency filter[2]	○	○	○	○	×		×
	Ultra-long-life filter[2]	○	○	○	○	×	×	

3-way flow 2-way flow

Independently installable optional parts \ Optional accessory parts		Panel spacer[1]	Wireless remote controller	Fresh air intake kit (Chamber type)[1,2]	Fresh air intake kit (direct mount)	High-humidity operation kit	High-efficiency filter[2]	Ultra-long-life filter[2]
Panel/grille related	Panel spacer[1]		○[3]	○[3]	○[3]	×	×	○[3]
Operation control related	Wireless remote controller	○[3]		○	○	○	×	○
Auxillary function related	Fresh air intake kit (Chamber type)[1,2]	○[3]	○		×	×	×	○
	Fresh air intake kit (direct mount)	○[3]	○	×		○	×	○
	High-humidity operation kit	×	○	×	○		×	×
Filter related	Ultra-long-life filter[2]	○[3]	○	○	○	×	×	

Branch duct connection

Independently installable optional parts \ Optional accessory parts		Panel spacer[1]	Wireless remote controller	Fresh air intake kit (Chamber type)[1,2]	Fresh air intake kit (direct mount)	High-humidity operation kit	High-efficiency filter[2]	Ultra-long-life filter[2]
Branch duct[1] (Chamber type) (Round duct type)	1-way branch / unit 3-way flow	○	○	○	○[4]	×	×	○
	2-way branch / unit 2-way flow	×	○	○	○[4]	×	×	○
	1-way branch / unit 2-way flow	×	○	○	○[4]	×	×	○

[1]In some cases, depending on how the unit is embedded in the ceiling, use of branch ducts and fresh air intake kits may not be possible. Before starting installation work make sure to check whether or not joint installation is possible. In particular, ensure that the lower fixing position caused by the addition of panel spacers is acceptable.
[2]Use a chamber connection kit if two different types of optional chamber are used together. In this case, the fresh air intake kit must be installed in the upper position.
[3]It is not possible to use panel spacers in a 2-way flow installation.
[4]It is not possible to install a branch duct on the same side to which a fresh air intake kit (direct mount) is installed.

OPTIONS

Indoor unit

CEILING MOUNTED CASSETTE TYPE

Name of option			Remark	Kit name								
				FCQ50KVEA	FCQ60KVEA	FCQ71KVEA	FCQ100KVEA	FCQ125KVEA	FCQ140KVEA	FCQ100KVLT	FCQ125KAVLT	FCQ140KAVLT
Decoration panel				BYCP125K-W1								
Sealing material of air discharge outlet				KDBH55K160F								
Panel spacer				KDBP55H160FA								
Fresh air intake kit[1]	Chamber type		Without the T-joint pipe and fan	KDDP55B160								
			With the T-joint pipe, without fan	KDDP55B160K								
	Direct installation type			KDDP55X160								
Chamber connection kit[2]				KKSJ55KA160								
Insulation kit for high humidity				KDTP55K80				KDTP55K160				
High-efficiency filter (including chamber)			(Colorimetric method 65%)	KAFP556B80				KAFP556B160				
			(Colorimetric method 90%)	KAFP557B80				KAFP557B160				
Replacement high-efficiency filter			(Colorimetric method 65%)	KAFP552B80				KAFP552B160				
			(Colorimetric method 90%)	KAFP553B80				KAFP553B160				
Filter chamber				KDDFP55B160								
Replacement long-life filter				KAFP551K160								
Ultra long-life filter				KAFP55B160								
Replacement ultra long-life filter				KAFP55H160H								
Branch duct chamber				KDJP55B80				KDJP55B160				
Remote controller		Wireless type	Cooling only	BRC7F633F								
		Wired type[3]		BRC1C61								
Navigation Remote Controller		Wired type[3]		BRC1E62								
Central remote controller[4]				DCS302CA61								
Unified ON/OFF controller[4]				DCS301BA61								
Schedule timer[4]				DST301BA61								
İntelligent Touch Controller[4]				DCS601C51								
Adaptor for wiring[5]				KRP1C63								
Wiring adaptor for electrical appendices[5]				KRP4AA53								
Installation box for adaptor PCB				KRP1H98								
Remote sensor (for indoor temperature)				KRCS01-4B								

Note: [1]Refer to page 8 for the details.
[2]Required for installing high-efficiency filter or ultra long-life filter.
[3]Wiring for wired remote controller to be procured locally.
[4]The indoor unit is equipped standardly with the interface adaptor for SkyAir series. An option is unnecessary.
[5]Installation box for adaptor PCB (KRP1H98) is necessary.

CEILING SUSPENDED TYPE

Name of option	Remark		Kit name			
			FHQ71CAVEB	FHQ100CAVEB	FHQ125CAVEB	FHQ140CAVEB
Long-life filter			KAFP501A80	KAFP501A160		
Fresh air intake kit			KDDQ50A140			
Drain pump kit			KDU50P140VE			
L-type piping kit (for upward direction)			KHFP5N160			
Remote controller	Wireless type	Cooling only	BRC7GA56			
	Wired type[1]		BRC1C61			
Navigation Remote Controller	Wired type[1]		BRC1E62			
Central remote controller[2]			DCS302CA61			
Unified ON/OFF controller[2]			DCS301BA61			
Schedule timer[2]			DST301BA61			
İntelligent Touch Controller[2]			DCS601C51			
Adaptor for wiring			KRP1BA54			
Wiring adaptor for electrical appendices[3]			KRP4AA52			
Installation box for adaptor PCB			KRP1D93A			
Remote sensor (for indoor temperature)			KRCS01-4B			
Electrical box with earth terminal (3 blocks)			KJB311AA			
Electrical box with earth terminal (2 blocks)			KJB212AA			

Note: [1]Wiring for wired remote controller to be procured locally.
[2]The indoor unit is equipped standardly with the interface adaptor for SkyAir series. An option is unnecessary.
[3]Installation box for adaptor PCB is necessary.

WALL MOUNTED TYPE

Name of option	Remark		Kit name	
			FAQ71CVEA	FAQ100CVEA
Drain-up kit			K-KDU572EVE	
Remote controller	Wireless type	Cooling only	BRC7EB519	
	Wired type[1]		BRC1C61	
Navigation Remote Controller	Wired type[1]		BRC1E62	
Remote sensor (for Indoor temperature)			KRCS01-4B	
Central remote controller[2]			DCS302CA61	
Unified ON/OFF controller[2]			DCS301BA61	
Schedule timer[2]			DST301BA61	
İntelligent Touch Controller[2]			DCS601C51	
Wiring adaptor for electrical appendices[3]			KRP4AA51	
Installation box for adaptor PCB			KRP4AA93	
Electrical box with earth terminal (3 blocks)			KJB311AA	
Electrical box with earth terminal (2 blocks)			KJB212AA	
Noise filter (For electromagnetic interface use only)			KEK26-1A	

Note: [1]Wiring for wired remote controller to be procured locally.
[2]The indoor unit is equipped standardly with the interface adaptor for SkyAir series. An option is unnecessary.
[3]Installation box for adaptor PCB (KRP4AA93) is necessary.

OPTIONS

Indoor unit

DUCT CONNECTION MIDDLE and HIGH STATIC PRESSURE TYPE

Name of option	Remark		Kit name					
			FBQ50DAVET	FBQ60DAVET	FBQ71DAVET	FBQ100DAVET	FBQ125DAVET	FBQ140DAVET
High-efficiency filter[1]	65%		KAF372AA80			KAF372AA160		
	90%		KAF373AA80			KAF373AA160		
Filter chamber			KDDF37AA80			KDDF37AA160		
Replacement long life filter			KAF371AA80			KAF371AA160		
Replacement long life filter chamber kit			KAF375AA80			KAF375AA160		
Service panel			KTB25KA80W			KTB25KA160W		
			KTBJ25K80F			KTBJ25K160F		
			KTBJ25K80T			KTBJ25K160T		
Air discharge adaptor			KDAJ25K71A			KDAJ25K140A		
Remote controller	Wireless type	Cooling only	BRC4C64					
	Wired type[2]		BRC1C61					
Navigation Remote Controller	Wired type[2]		BRC1E62					
Adaptor for wiring (interlock for fresh air intake fan)			KRP1C64 ★					
Wiring adaptor for electrical appendices			KRP4AA51 ★					
Remote sensor			KRCS01-4B					
Mounting plate for adaptor PCB.[4]			KRP4A96 [5,6]					
Central remote controller[3]			DCS302CA61					
Unified ON/OFF controller[3]			DCS301BA61					
Schedule timer[3]			DST301BA61					
İntelligent Touch Controller[3]			DCS601C51					

Note: [1]If installing a high efficiency filter on the unit, an assembly chamber for either bottom or rear suction is required.
[2]Wiring for wired remote controller to be procured locally.
[3]The indoor unit is equipped standardly with the interface adaptor for SkyAir series. An option is unnecessary.
[4]Mounting plate for adaptor PCB is necessary for each adaptor marked ★.
[5]Up to 2 adaptors can be fixed for each mounting plate.
[6]Only one mounting plate can be installed for each indoor unit.

FLOOR STANDING TYPE

Name of option	Remark	Kit name					
		FVQ50CVE	FVQ60CVE	FVQ71CVEB	FVQ100CVEB	FVQ125CVEB	FVQ140CVEB
Replacement long-life filter		KAFJ95L160					
Remote controller	Wired type[1]	BRC1C61					
Navigation Remote Controller	Wired type[1]	BRC1E62					
Central remote controller[2]		DCS302CA61					
Unified ON/OFF controller[2]		DCS301BA61					
Schedule timer[2]		DST301BA61					
İntelligent Touch Controller[2]		DCS601C51					
Adaptor for wiring[3]		KRP1BA57					
Wiring adaptor for electrical appendices		KRP4AA52					
Installation box for adaptor PCB		KRP4AA95					

Note: [1]Wiring for wired remote controller to be procured locally.
[2]The indoor unit is equipped standardly with the interface adaptor for SkyAir series. An option is unnecessary.
[3]Installation box for adaptor PCB (KRP4AA95) is necessary.

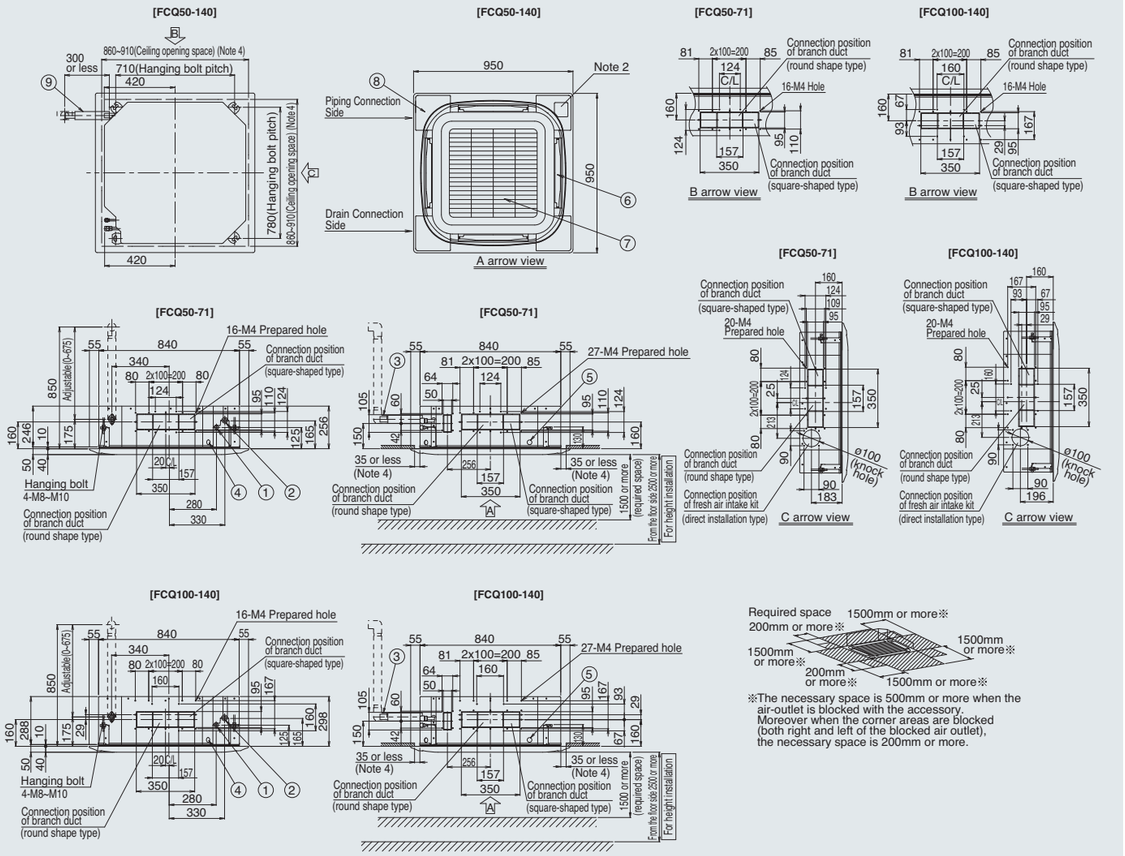
Outdoor unit

Name of option		Kit name					
		RZR50LVVM	RZR60LVVM	RZR71LVVM	RZR100LVVM	RZR125LVVM	RZR140LVVM
Central drain plug		KKP014A4			KKPJ5G280	KKPJ5F180	
Wire fixture for preventing overturning		———			———	K-KYZP15C	
Fixture for preventing overturning		———			KKTP5B112	KPT-60B160	
Demand adaptor		———			KRP58M51		
Refrigerant branch piping kit	For twin multi	———				KHRP58P216T	

Name of option		Kit name					
		RZQ100KCTLT	RZQ125KCTLT	RZQ140KCTLT	RZQ100LUYLT	RZQ125LUYLT	RZQ140LUYLT
Central drain plug		KKPJ5F180					
Fixture for preventing overturning	Base stationary type	KPT-60B160					
	Wire type	K-KYZP15C					
Demand adaptor		KRP58M51					

DIMENSIONS (Unit: mm)

CEILING MOUNTED CASSETTE TYPE


[FCQ50-140]
[FCQ50-140]
[FCQ50-71]
[FCQ100-140]
860~910(Ceiling opening space) (Note 4)
710(Hanging bolt pitch)
780(Hanging bolt pitch)
Piping Connection Side
Drain Connection Side
Note 2
A arrow view
B arrow view
Connection position of branch duct (round shape type)
Connection position of branch duct (square-shaped type)
16-M4 Hole
[FCQ50-71]
[FCQ100-140]
16-M4 Prepared hole
27-M4 Prepared hole
20-M4 Prepared hole
Hanging bolt 4-M8~M10
Connection position of branch duct (round shape type)
Connection position of branch duct (square-shaped type)
Connection position of fresh air intake kit (direct installation type)
C arrow view
35 or less (Note 4)
150 or more (required space)
For height installation
Required space
1500mm or more※
200mm or more※
※The necessary space is 500mm or more when the air-outlet is blocked with the accessory. Moreover when the corner areas are blocked (both right and left of the blocked air outlet), the necessary space is 200mm or more.

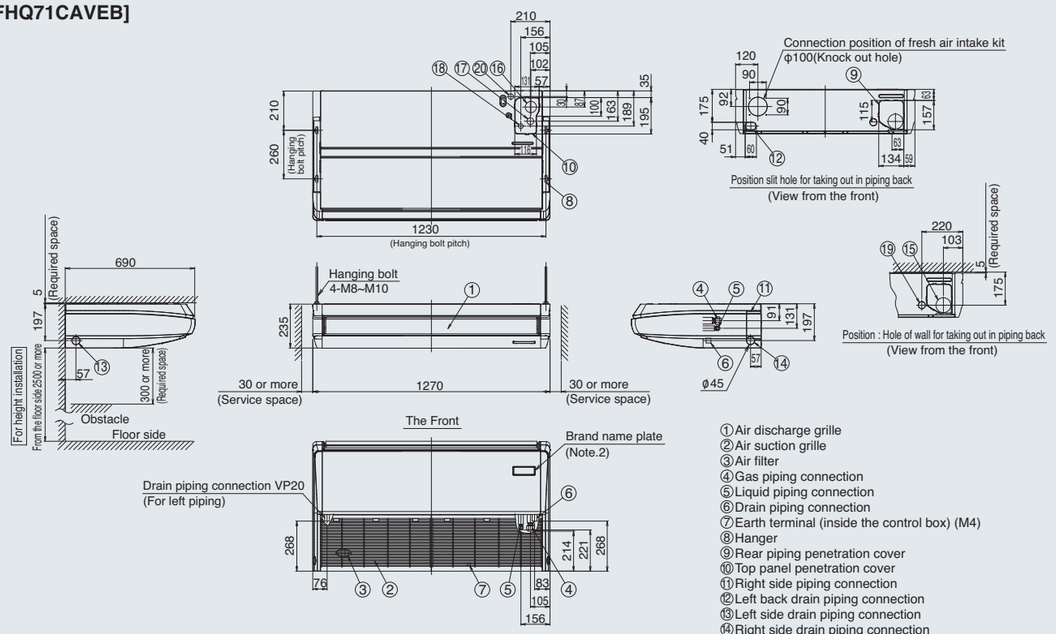
Notes:
[1]Sticking location for manufacture's label
manufacture's label for indoor unit:
Suction grille inner side's electric components box's lid surface
manufacture's label for decoration panel :
Decoration panel's corner decoration cover inner surface
[2]In case of using wireless remote controller, this position will be a signal receiver. Refer to the drawing of wireless remote controller in detail.
[3]When the temperature and humidity in the ceiling exceed 30˚C and RH 80% or the fresh air is inducted into the ceiling or the unit continues 24 hour operation, an additional insulation (thickness 10mm or more of glasswool or polyethylene form) is required.
[4]Though the installation is acceptable up to maximum of 910mm square ceiling opening, keep the clearance of 35mm or less between the indoor unit and the ceiling opening so that the panel overlap allowance can be ensured.
[5]Please do not place the thing been damp and troubled under an indoor unit.
When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

① Liquid piping connection
② Gas piping connection
③ Drain piping connection
④ Transmission wiring connection
⑤ Remote controller wiring connection
⑥ Air-outlet
⑦ Suction grille
⑧ Corner decoration cover
⑨ Drain hose (accessory)

DIMENSIONS (Unit: mm)

CEILING SUSPENDED TYPE

[FHQ71CAVEB]

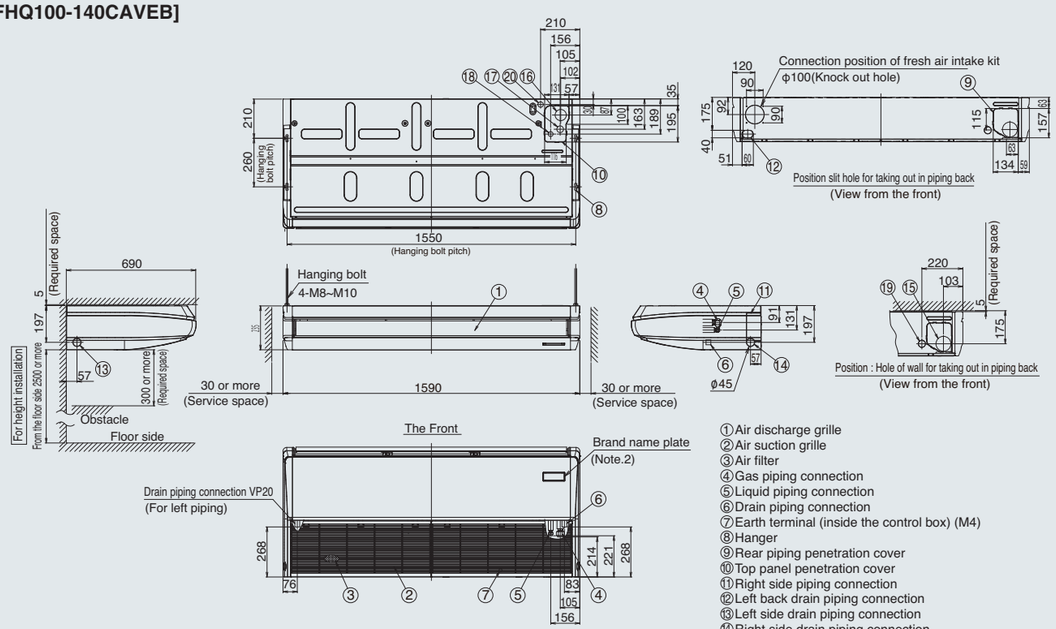


①Air discharge grille
②Air suction grille
③Air filter
④Gas piping connection
⑤Liquid piping connection
⑥Drain piping connection
⑦Earth terminal (inside the control box) (M4)
⑧Hanger
⑨Rear piping penetration cover
⑩Top panel penetration cover
⑪Right side piping connection
⑫Left back drain piping connection
⑬Left side drain piping connection
⑭Right side drain piping connection
⑮Hole of wall for taking out in piping back
⑯Upward drain piping connection
⑰Upward gas piping connection
⑱Upward liquid piping connection
⑲Power supply wiring and a unit wiring back connection
⑳Power supply wiring and a unit wiring upper connection

Notes:
[1] Location of unit's Name Plate: Bottom of fan housing inside the suction grille.
[2] In case of using wireless remote controller, this position will be a signal receiver.
Refer to the drawing of wireless remote controller in detail.
[3] Please do not place the thing been damp and troubled under an indoor unit.
When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

CEILING SUSPENDED TYPE

[FHQ100-140CAVEB]

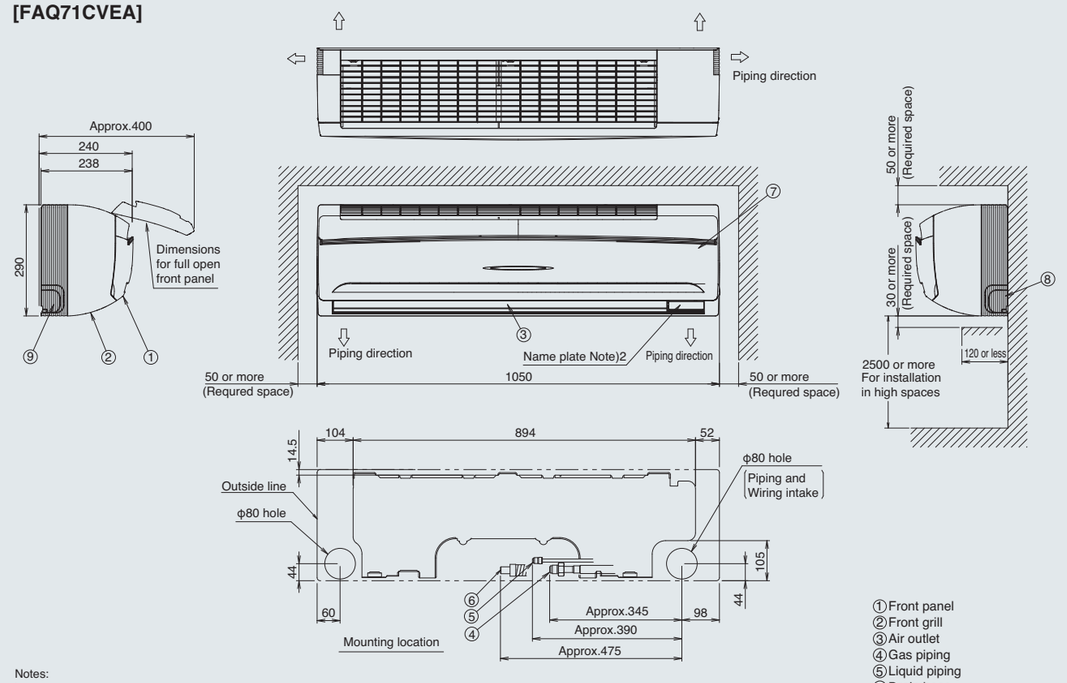


①Air discharge grille
②Air suction grille
③Air filter
④Gas piping connection
⑤Liquid piping connection
⑥Drain piping connection
⑦Earth terminal (inside the control box) (M4)
⑧Hanger
⑨Rear piping penetration cover
⑩Top panel penetration cover
⑪Right side piping connection
⑫Left back drain piping connection
⑬Left side drain piping connection
⑭Right side drain piping connection
⑮Hole of wall for taking out in piping back
⑯Upward drain piping connection
⑰Upward gas piping connection
⑱Upward liquid piping connection
⑲Power supply wiring and a unit wiring back connection
⑳Power supply wiring and a unit wiring upper connection

Notes:
[1] Location of unit's Name Plate: Bottom of fan housing inside the suction grille.
[2] In case of using wireless remote controller, this position will be a signal receiver.
Refer to the drawing of wireless remote controller in detail.
[3] Please do not place the thing been damp and troubled under an indoor unit.
When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

WALL MOUNTED TYPE

[FAQ71CVEA]

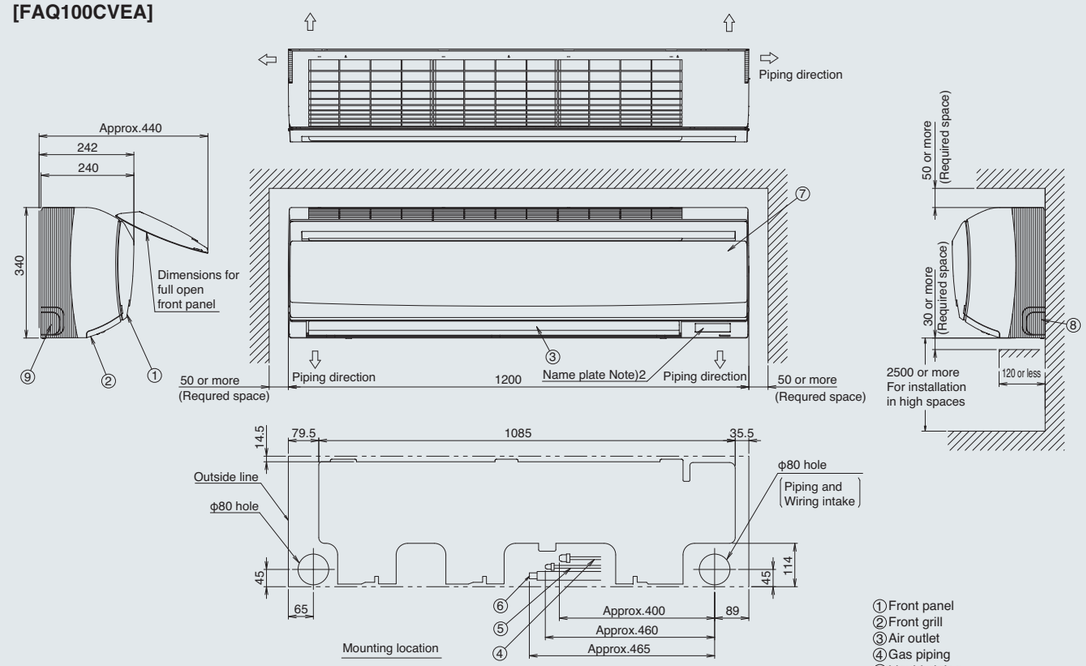


①Front panel
②Front grill
③Air outlet
④Gas piping
⑤Liquid piping
⑥Drain hose
⑦Earth terminal
⑧Right side piping connection hole
⑨Left side piping connection hole

Notes:
[1] Location of unit's of Name Plate:Right side surface of casing
[2] In case of using wireless remote controller, this position will be a signal receiver. Refer to the drawing of wireless remote contorller in detail.
[3] Please do not place the thing been damp and troubled under an indoor unit. when the case where humidity is 80% or more,
and the drain outlet are choked up and the air filter are dirty, dew may fall.

WALL MOUNTED TYPE

[FAQ100CVEA]



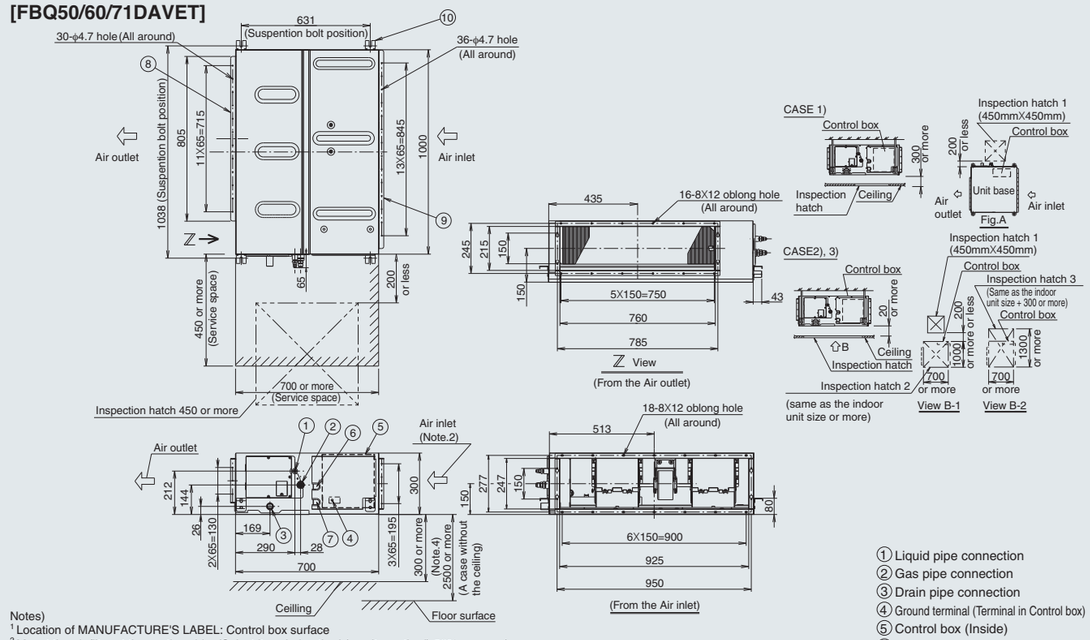
①Front panel
②Front grill
③Air outlet
④Gas piping
⑤Liquid piping
⑥Drain hose
⑦Earth terminal
⑧Right side piping connection hole
⑨Left side piping connection hole

Notes:
[1] Location of unit's of Name Plate:Right side surface of casing
[2] In case of using wireless remote controller, this position will be a signal receiver. Refer to the drawing of wireless remote contorller in detail.
[3] Please do not place the thing been damp and troubled under an indoor unit. when the case where humidity is 80% or more,
and the drain outlet are choked up and the air filter are dirty, dew may fall.

DIMENSIONS (Unit: mm)

DUCT CONNECTION MIDDLE and HIGH STATIC PRESSURE TYPE

[FBQ50/60/71DAVET]



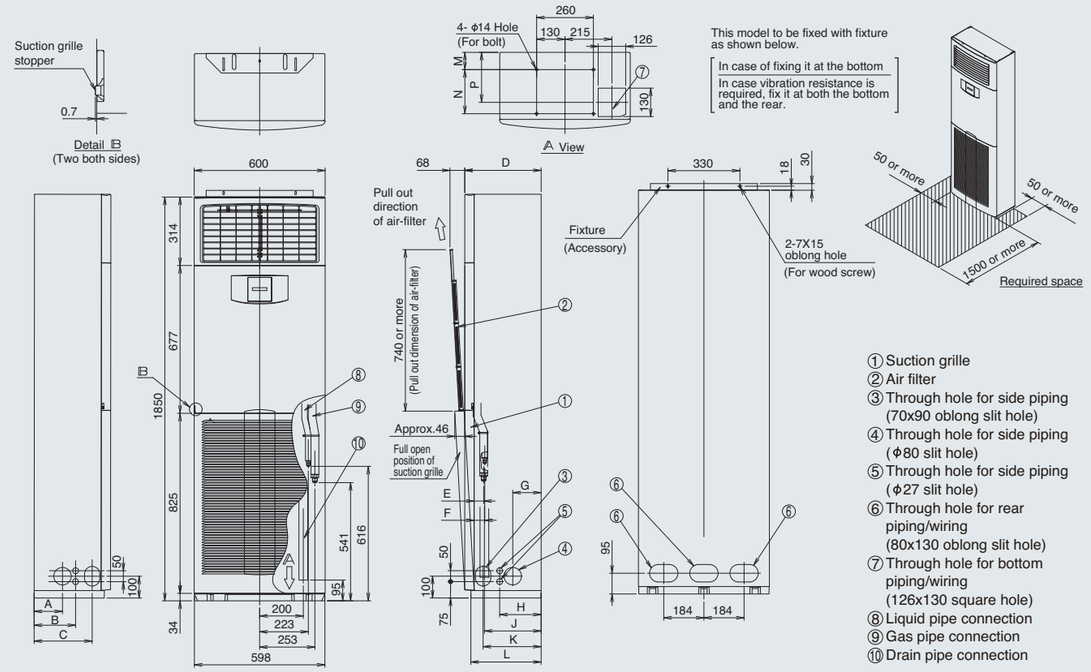
① Liquid pipe connection
② Gas pipe connection
③ Drain pipe connection
④ Ground terminal (Terminal in Control box)
⑤ Control box (Inside)
⑥ Remote control wiring connection
⑦ Power-source wiring and a unit wiring connection
⑧ Air discharge flange
⑨ Air suction flange
⑩ Hook

Notes)
[1] Location of MANUFACTURE'S LABEL: Control box surface
[2] Mount the air filter at the suction side. (Select its colorimethod (gravity method) 50% or more.)
[3] Do not locate things should not be wet under the indoor unit. Dews may drop when humidity reaches over 80%, or a drain gets stuck, or air filters are not clean.
[4] Space for Service Works

According to any one of below 1) ~3), secure a space for service works, such as, checking and maintenance of control box, etc.

1) One inspection hatch (450X450) on the control box side and a space of 300mm or more under the unit. (Fig.A)
2) One inspection hatch (450X450) on the control box side and 2 (two) inspection hatches under the unit. (Arrow View B-1)
3) 3 (three) inspection hatches under the unit and the control box. (Arrow View B-2)

FLOOR STANDING TYPE



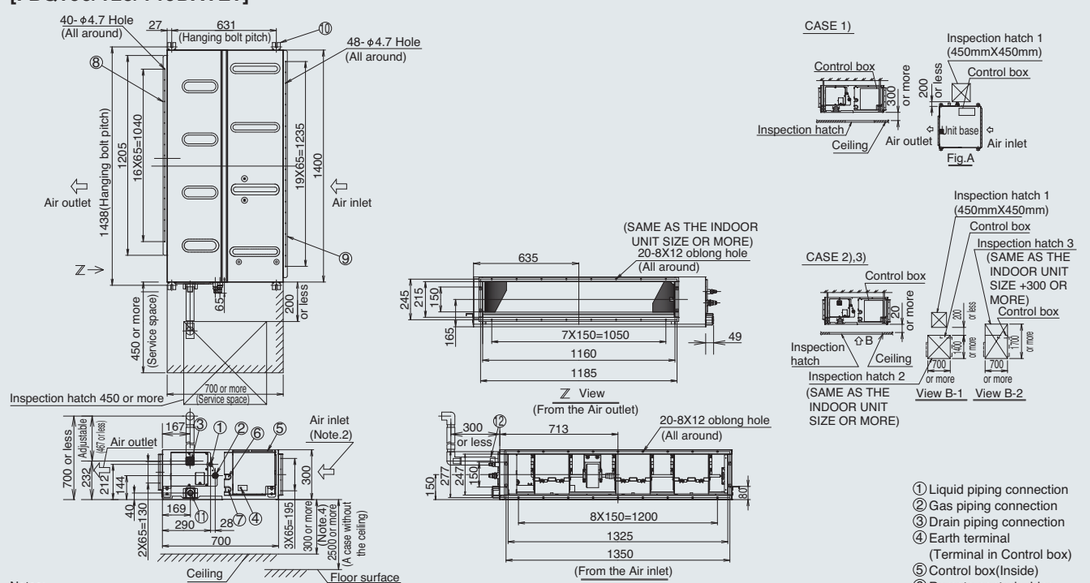
① Suction grille
② Air filter
③ Through hole for side piping (70x90 oblong slit hole)
④ Through hole for side piping (φ80 slit hole)
⑤ Through hole for side piping (φ27 slit hole)
⑥ Through hole for rear piping/wiring (80x130 oblong slit hole)
⑦ Through hole for bottom piping/wiring (126x130 square hole)
⑧ Liquid pipe connection
⑨ Gas pipe connection
⑩ Drain pipe connection

Notes:
[1] Sticking location for manufacturer's label: on the surface of cover of switch box inside the suction grille.

	A	B	C	D	E	F	G	H	J	K	L	M	N	P
FVQ50/60CVE, 71CVEB	50	110	186	270	45	50	50	110	180	186	242	57	144	149
FVQ100/125/140CVEB	130	190	266	350	44	49	130	190	260	266	322	79	202	229

DUCT CONNECTION MIDDLE and HIGH STATIC PRESSURE TYPE

[FBQ100/125/140DAVET]



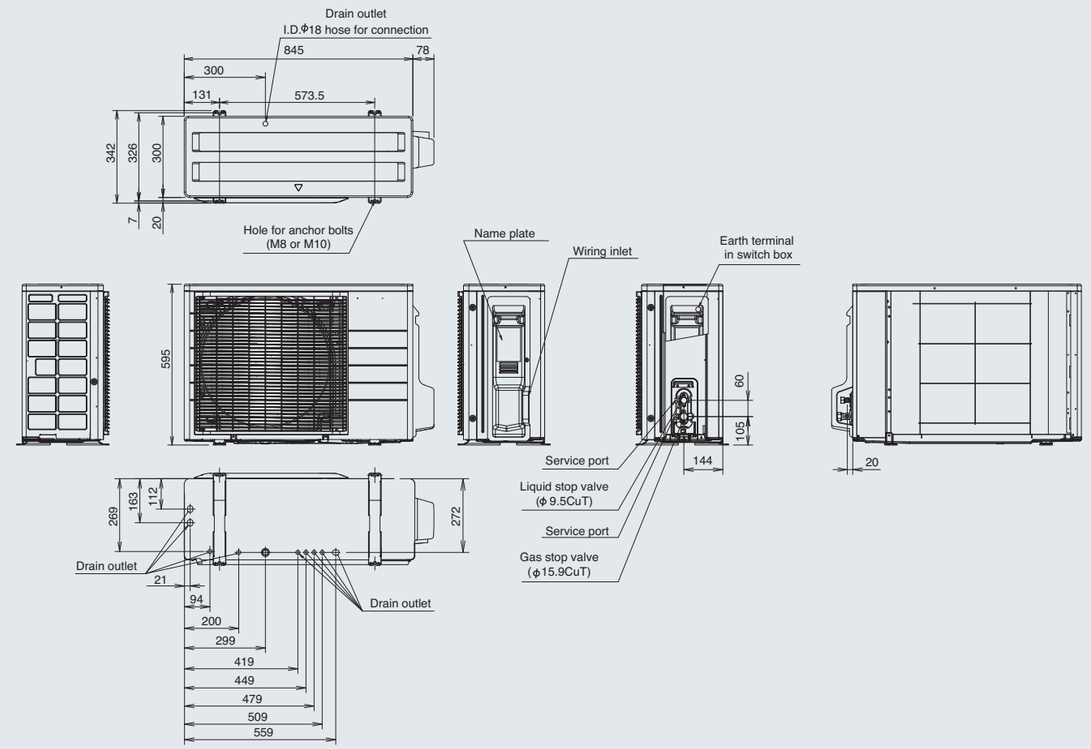
① Liquid piping connection
② Gas piping connection
③ Drain piping connection
④ Earth terminal (Terminal in Control box)
⑤ Control box(Inside)
⑥ Remote control wiring connection
⑦ Power supply wiring and a transmission wiring
⑧ Air discharge flange
⑨ Air suction flange
⑩ Hanger
⑪ Socket (for maintenance)
⑫ Drain hose(Accessory)

Notes:
[1] Location of MANUFACTURE'S LABEL: Control box surface
[2] Mount the air filter at the suction side.(Select its colorimethod (gravity method) 50% or more.
[3] Do not locate things should not be wet under the indoor unit.Dews may drop when humidity reaches over 80%,or a drain gets stuck,or air filters are not clean.
[4] Space for Service Works

According to any one of below 1)~3),secure a space for service works,such as,checking and maintenance of control box,etc.

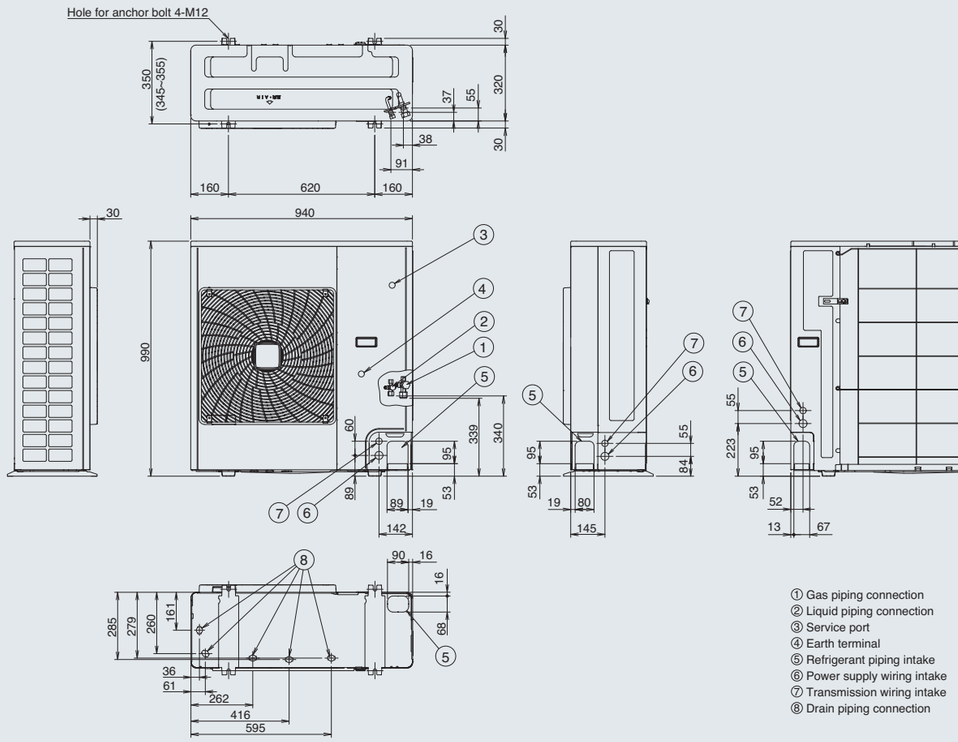
1)One inspection hatch (450X450) on the control box side and a space of 300mm or more under the unit.(Fig.A)
2)One inspection hatch (450X450) on the control box side and 2 (two) inspection hatches under the unit.(Arrow View B-1)
3)3 (three) inspection hatches under the unit and the control box.(Arrow View B-2)

OUTDOOR UNIT // RZR50/60/71LVVM

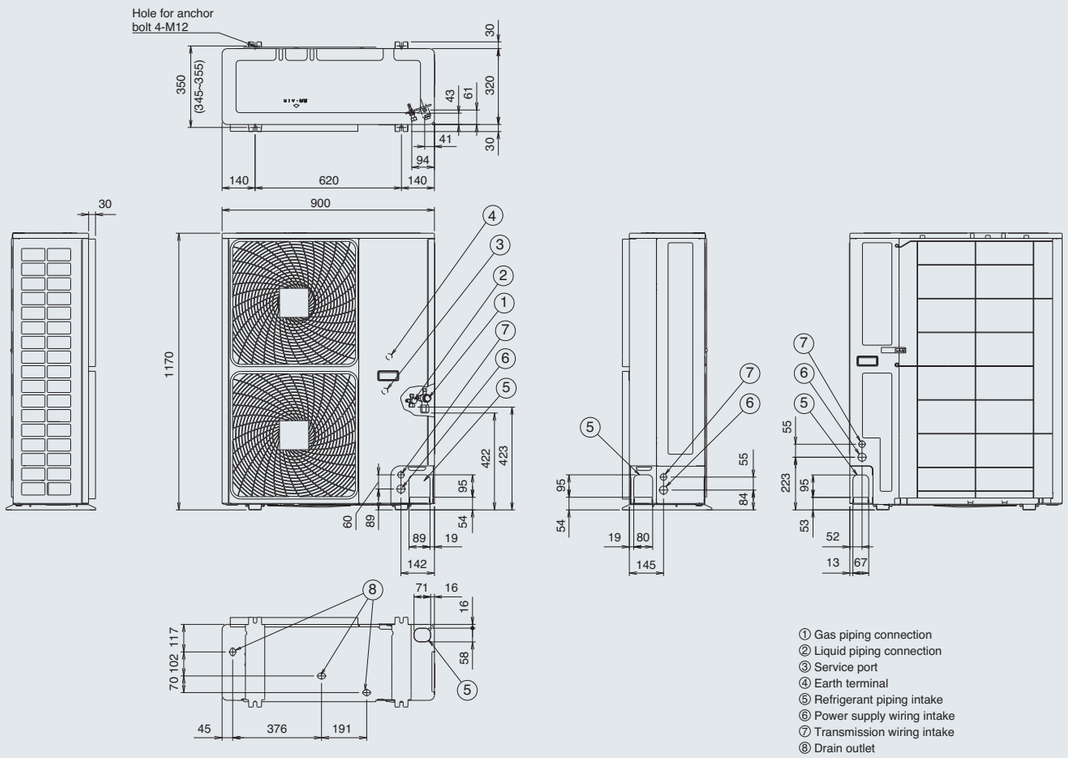


DIMENSIONS (Unit: mm)

OUTDOOR UNIT // RZR100LVVM


Hole for anchor bolt 4-M12
① Gas piping connection
② Liquid piping connection
③ Service port
④ Earth terminal
⑤ Refrigerant piping intake
⑥ Power supply wiring intake
⑦ Transmission wiring intake
⑧ Drain piping connection

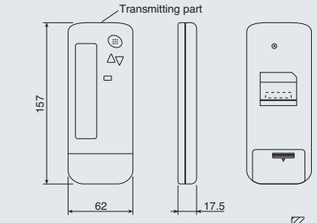
OUTDOOR UNIT // RZR125/140LVVM, RZQ100/125/140KCTLT, RZQ100/125/140LUYLT



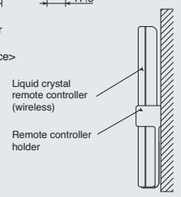
REMOTE CONTROLLER

《Wireless type》

· Remote controller dimensions

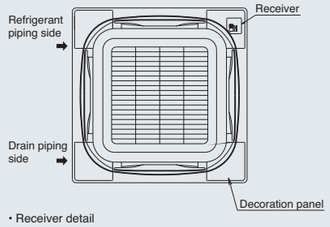


· Remote controller holder installation procedure <installation to wall surface>



CEILING MOUNTED CASSETTE TYPE <Round Flow>

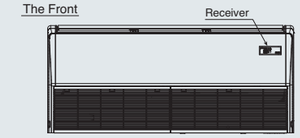
• Receiver installation procedure



• Receiver detail

CEILING SUSPENDED TYPE

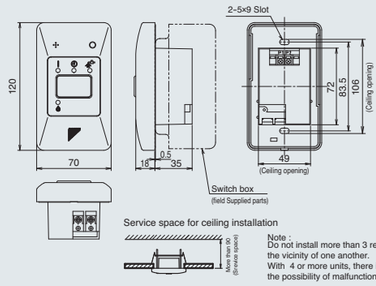
• Receiver installation procedure



• Receiver detail

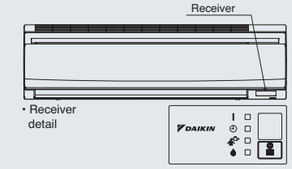
DUCT CONNECTION MIDDLE and HIGH STATIC PRESSURE TYPE

· Receiver detail



WALL MOUNTED TYPE

• Receiver installation procedure



• Receiver detail

《Wired type》 · Remote controller dimensions

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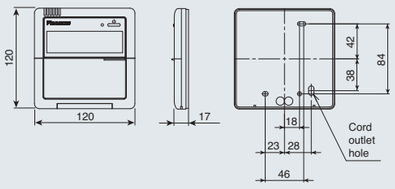
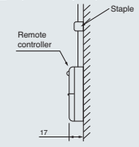
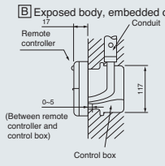


• Installation method

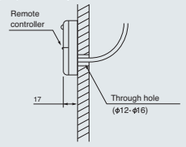
A Exposed body, exposed cord



B Exposed body, embedded cord



C Exposed body, embedded code



Specifications of cord

Type *	Shield wire (insulated thickness: 1 mm or more)
Size	0.75~1.25 mm²
Total length	500 m

Note)
1. Remote controller cord and staple are not attached.
They are field supplied parts.

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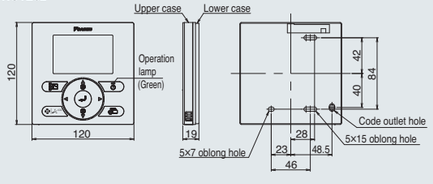
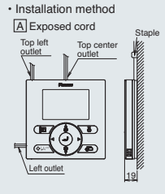
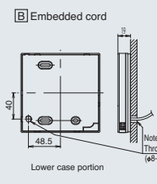


• Installation method

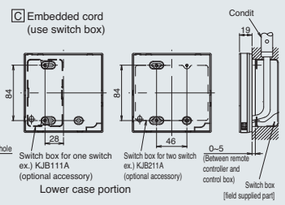
A Exposed cord



B Embedded cord



C Embedded cord (use switch box)



Note)
1. Remote controller cord and staple are not attached. They are field supplied parts.

Specifications of cord

Type	Vinyl cord with sheath or cable (insulated thickness: 1mm or more)
Size	0.75~1.25 mm²
Total length	500 m

2.If the hole size is too large or the location is not proper, the hole may come out from the remote controller.

Installation service space for outdoor unit

For RZR50-140LVVM

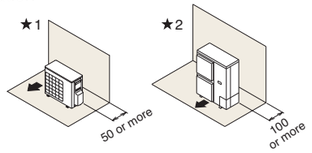
★1.RZR50/60/71LVVM ★2.RZR100-140LVVM

1 When there is an obstruction on the inlet side

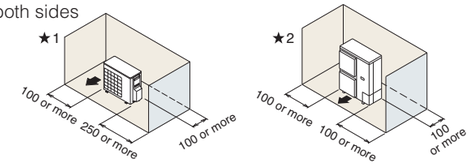
1) When the overhead space is open

1. For single unit installation

When there is an obstruction only on the inlet side

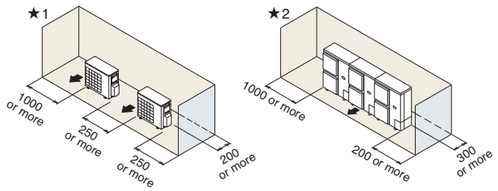


When there are obstructions on both sides



2. For series installation (more than two units)

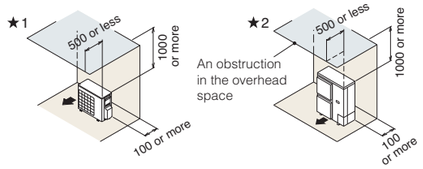
When there are obstructions on both sides



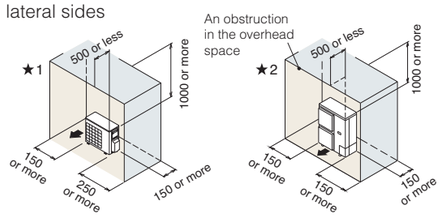
2) When there is an obstruction in the overhead space

1. For single unit installation

When there is an obstruction on the inlet side

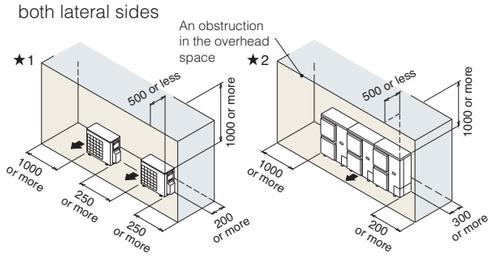


When there are obstructions on the inlet side and both lateral sides



2. For series installation (more than two units)

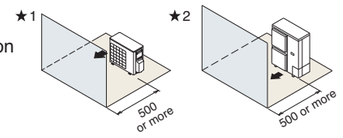
When there are obstructions on the inlet side and both lateral sides



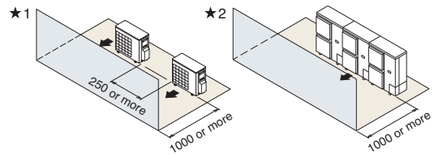
2 When there is an obstruction on the outlet side

1) When the overhead space is open

1. For single unit installation

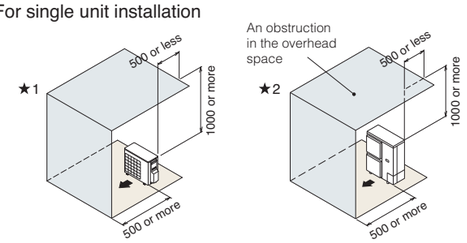


2. For series installation (more than two units)

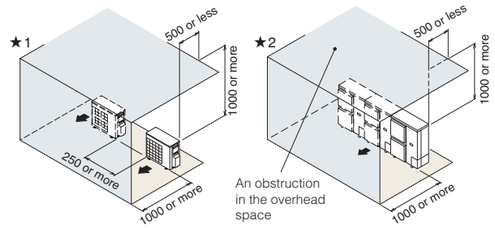


2) When there is an obstruction in the overhead space

1. For single unit installation



2. For series installation (more than two units)



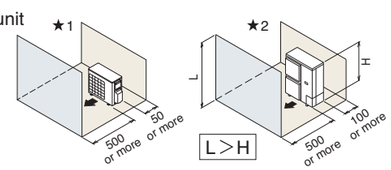
3 When there are obstructions on both the inlet and outlet sides

(When the obstruction on the outlet side is higher than the unit itself)

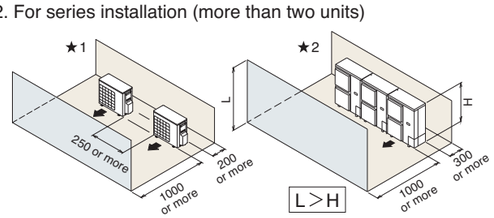
1) When the overhead space is open

(There is no limit to the height of the obstruction on the outlet side.)

1. For single unit installation



2. For series installation (more than two units)



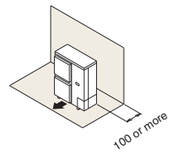
For RZQ100-140KCTLT, 100-140LUYLT

1 When there is an obstruction on the inlet side

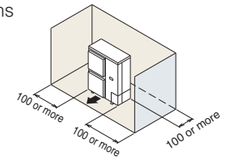
1) When the overhead space is open

1. For single unit installation

When there is an obstruction only on the inlet side

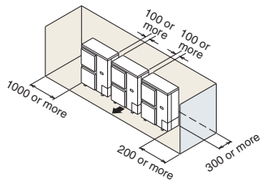


When there are obstructions on both sides



2. For multiple units installation (more than two units)

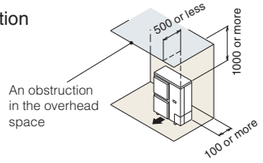
When there are obstructions on both sides



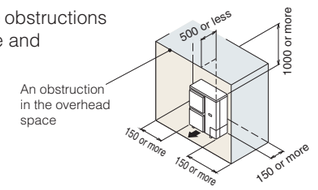
2) When there is an obstruction in the overhead space

1. For single unit installation

When there is an obstruction on the inlet side

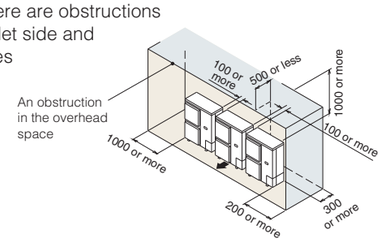


When there are obstructions on the inlet side and both sides



2. For multiple units installation (more than two units)

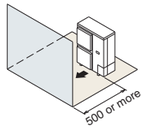
When there are obstructions on the inlet side and both sides



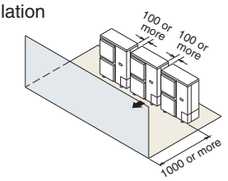
2 When there is an obstruction on the outlet side

1) When the overhead space is open

1. For single unit installation



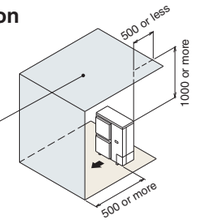
2. For multiple units installation (more than two units)



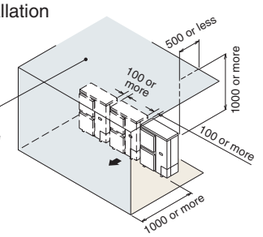
2) When there is an obstruction in the overhead space

1. For single unit installation

An obstruction in the overhead space



2. For multiple units installation (more than two units)



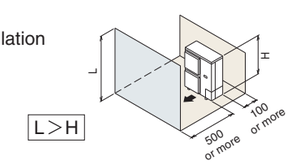
3 When there are obstructions on both the inlet and outlet sides

(When the obstruction on the outlet side is higher than the unit itself)

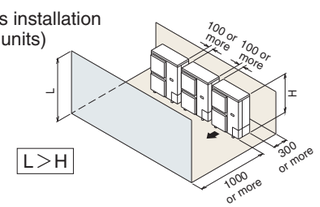
1) When the overhead space is open

(There is no limit to the height of the obstruction on the outlet side.)

1. For single unit installation



2. For multiple units installation (more than two units)



Note : As for other patterns of installation, please refer to Installation manual or Engineering Data Book.